

09/646,950

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NEWS	4	AUG 24	ENCOMPLIT/ENCOMPLIT2 reloaded and enhanced
NEWS	5	AUG 24	CA/CAPLUS enhanced with legal status information for U.S. patents
NEWS	6	SEP 09	50 Millionth Unique Chemical Substance Recorded in CAS REGISTRY
NEWS	7	SEP 11	WPIDS, WPINDEX, and WPIX now include Japanese FTERM thesaurus
NEWS	8	OCT 21	Derwent World Patents Index Coverage of Indian and Taiwanese Content Expanded
NEWS	9	OCT 21	Derwent World Patents Index enhanced with human translated claims for Chinese Applications and Utility Models
NEWS	10	NOV 23	Addition of SCAN format to selected STN databases
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NEWS	12	DEC 01	FRFULL Content and Search Enhancements
NEWS	13	DEC 01	DGENE, USGENE, and PCTGEN: new percent identity feature for sorting BLAST answer sets
NEWS	14	DEC 02	Derwent World Patent Index: Japanese FI-TERM thesaurus added
NEWS	15	DEC 02	PCTGEN enhanced with patent family and legal status display data from INPADOCDB
NEWS	16	DEC 02	USGENE: Enhanced coverage of bibliographic and sequence information
NEWS	17	DEC 21	New Indicator Identifies Multiple Basic Patent Records Containing Equivalent Chemical Indexing in CA/CAPLUS
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NEWS	19	JAN 25	Annual Reload of MEDLINE database
NEWS	20	FEB 16	STN Express Maintenance Release, Version 8.4.2, Is Now Available for Download
NEWS	21	FEB 16	Derwent World Patents Index (DWPI) Revises Indexing of Author Abstracts
NEWS	22	FEB 16	New FASTA Display Formats Added to USGENE and PCTGEN
NEWS	23	FEB 16	INPADOCDB and INPAFAMDB Enriched with New Content and Features

NEWS 24 FEB 16 INSPEC Adding Its Own IPC codes and Author's E-mail
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* * * * * STN Columbus * * * * *

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TOTAL

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SESSION

FULL ESTIMATED COST

0.22

0.22

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STRUCTURE FILE UPDATES: 15 MAR 2010 HIGHEST RN 1210111-73-1

DICTIONARY FILE UPDATES: 15 MAR 2010 HIGHEST RN 1210111-73-1

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=> s KNNE/sqsp

L1 12915 KNNE/SQSP

=> s l1 and sql<=10

09/646,950

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FULL ESTIMATED COST 38.84 39.06

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FILE COVERS 1907 - 16 Mar 2010 VOL 152 ISS 12
FILE LAST UPDATED: 15 Mar 2010 (20100315/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2009

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the first quarter of 2010.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l2
L3 11 L2
=> d l3 ibib abs hitstr 1-11

L3 ANSWER 1 OF 11 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2009:1050188 HCAPLUS
 DOCUMENT NUMBER: 151:281002
 TITLE: Methods and compositions for adeno-associated virus
 (AAV) with HI loop mutations
 INVENTOR(S): Diprimio, Nina; Samulski, Richard Jude
 PATENT ASSIGNEE(S): University of North Carolina at Chapel Hill, USA
 SOURCE: U.S. Pat. Appl. Publ., 118pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20090215879	A1	20090827	US 2009-369945	20090212
WO 2009108274	A2	20090903	WO 2009-US886	20090212
WO 2009108274	A3	20100107		

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RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

PRIORITY APPLN. INFO.: US 2008-31581P P 20080226

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB The invention provides modified AAV capsid proteins comprising substitutions in the HI loop. Suitable substitutions include affinity tags, sequences that facilitate detection and/or targeting peptides. The invention also provides virus capsids and virus vectors comprising the modified AAV capsid proteins and methods of using the same. Further provided are methods of purifying the modified AAV capsid subunits, virus capsids and virus vectors of the invention.

IT **1182714-32-4**

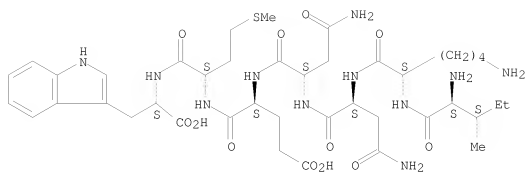
RL: PRP (Properties)

(unclaimed protein sequence; methods and comps. for adeno-associated virus (AAV) with HI loop mutations)

RN 1182714-32-4 HCAPLUS

CN L-Tryptophan, L-isoleucyl-L-lysyl-L-asparaginyl-L-asparaginyl-L- α -glutamyl-L-methionyl- (CA INDEX NAME)

Absolute stereochemistry.



L3 ANSWER 2 OF 11 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2009:720268 HCAPLUS
 Correction of: 2009:592717
 DOCUMENT NUMBER: 151:6802
 Correction of: 150:512998
 TITLE: Multimers of MHC complexed with Mycobacterium tuberculosis peptide as vaccine and for diagnosis, prognosis and therapy of tuberculosis
 INVENTOR(S): Scholler, Jorgen; Brix, Liselotte; Pedersen, Henrik; Jakobsen, Tina
 PATENT ASSIGNEE(S): Dako Denmark A/S, Den.
 SOURCE: PCT Int. Appl., 1642pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 27
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2009039854	A2	20090402	WO 2008-XD339	20080929
W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
PRIORITY APPLN. INFO.:			DK 2007-1395 US 2007-960394P	A 20070927 P 20070927

AB The present invention relates to MHC-peptide complexes and uses thereof in the diagnosis of, treatment of or vaccination against a disease in an individual. More specifically the invention discloses MHC complexes comprising Mycobacterium tuberculosis antigenic peptides and uses thereof. [This abstract record is one of 51 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints].

IT 1159328-30-9 1159328-31-0 1159329-54-0
 1159329-55-1 1159330-92-3

RL: PRP (Properties)

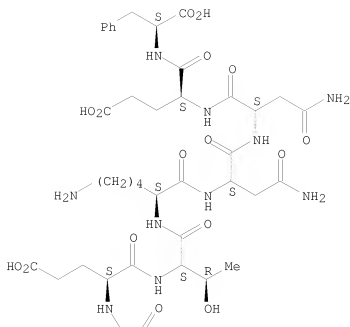
(unclaimed protein sequence; multimers of MHC complexed with Mycobacterium tuberculosis peptide as vaccine and for diagnosis, prognosis and therapy of tuberculosis)

RN 1159328-30-9 HCAPLUS

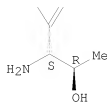
CN L-Phenylalanine, L-threonyl-L- α -glutamyl-L-threonyl-L-lysyl-L-asparaginy-L-asparaginy-L- α -glutamyl- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



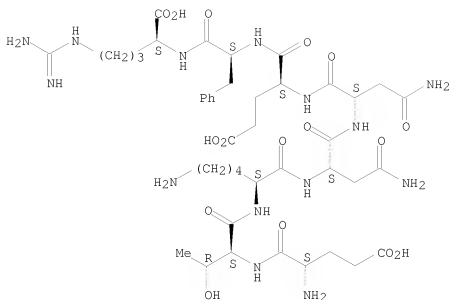
PAGE 2-A



RN 1159328-31-0 HCAPLUS

CN L-Arginine, L- α -glutamyl-L-threonyl-L-lysyl-L-asparaginyl-L-asparaginyl-L- α -glutamyl-L-phenylalanyl- (CA INDEX NAME)

Absolute stereochemistry.

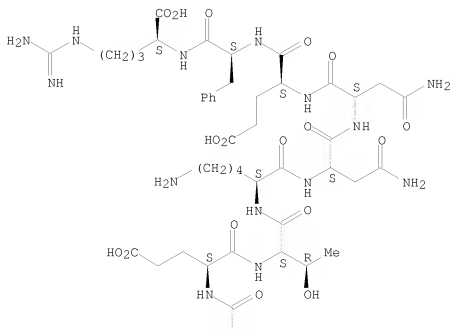


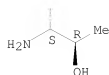
RN 1159329-54-0 HCAPLUS

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Absolute stereochemistry.

PAGE 1-A

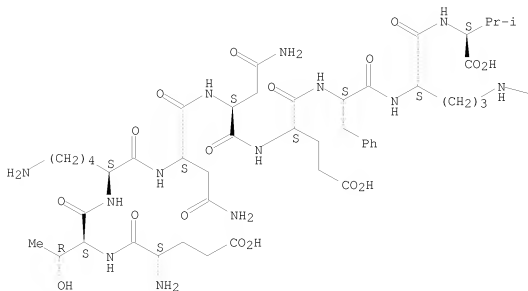




RN 1159329-55-1 HCAPLUS

CN L-Valine, L- α -glutamyl-L-threonyl-L-lysyl-L-asparaginyl-L-asparaginyl-L- α -glutamyl-L-phenylalanyl-L-arginyl- (CA INDEX NAME)

Absolute stereochemistry.



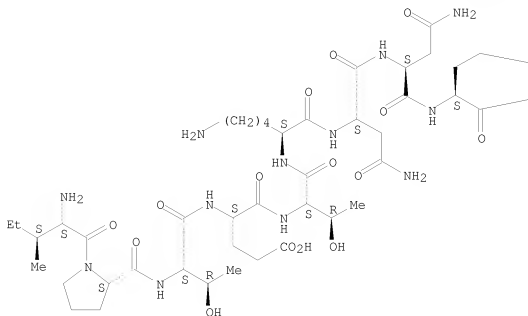
RN 1159330-92-3 HCAPLUS

09/646,950

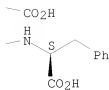
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Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



L3 ANSWER 3 OF 11 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2008:1297675 HCAPLUS
 DOCUMENT NUMBER: 149:507515
 TITLE: Identification, isolation and therapeutic and
 diagnostic uses of replikins, peptides related to
 rapid cell replication and high human mortality
 Bogoch, Samuel; Bogoch, Elenore S.
 INVENTOR(S): USA
 PATENT ASSIGNEE(S):
 SOURCE: U.S., 221pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 11
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 7442761	B2	20081028	US 2004-860050	20040604
US 20050202415	A1	20050915		
AU 2004259640	A1	20050203	AU 2004-259640	20040607
CA 2528440	A1	20050203	CA 2004-2528440	20040607
WO 2005010032	A2	20050203	WO 2004-US17936	20040607
WO 2005010032	A3	20050609		
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EP 1636254	A2	20060322	EP 2004-785929	20040607
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NZ 544277	A	20090228	NZ 2004-544277	20040607
AU 2005237587	A1	20051110	AU 2005-237587	20050428
CA 2565006	A1	20051110	CA 2005-2565006	20050428
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US 20060024669	A1	20060202	US 2005-116203	20050428
EP 1745401	A2	20070124	EP 2005-743059	20050428

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HR, LV, MK, YU

CN 1947122	A	20070411	CN 2005-80012974	20050428
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NZ 550512	A	20080829	NZ 2005-550512	20050428
SG 153065	A1	20090629	SG 2009-3296	20050428
US 20070026009	A1	20070201	US 2006-355120	20060216
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PRIORITY APPLN. INFO.:			US 2003-476186P	P 20030606
			US 2003-504958P	P 20030923
			US 2003-531686P	P 20031223
			US 2001-278761P	P 20010327
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			US 2001-984057	A2 20011026
			US 2002-105232	A2 20020326
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			WO 2004-US17936	W 20040607
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			US 2005-116203	A2 20050428
			WO 2005-US14443	W 20050428

AB The present invention provides replikins, a new class of peptides related to rapid cell replication and high human mortality, and their use in diagnosing, preventing and treating disease. An algorithm to search for replikins was constructed. The replikins have from 7 to about 50 amino acids comprising (1) at least one lysine residue located 6-10 residues from a second lysine residue, (2) at least one histidine residues, and (3) at least 6% lysine residues. Replikins have been found in viruses (i.e. coronavirus, influenza virus, SARS virus), bacteria, fungi, cancer associated proteins, plants and unicellular parasites. Extraction, isolation and identification of replikins and the use of replikins to target, label or destroy replikin-containing organisms is described. The amino acid sequences of coronaviral replikins are disclosed. Synthetic replikins were devised for the use as anti-SARS vaccines.

IT **605635-66-3**

RL: PRP (Properties)

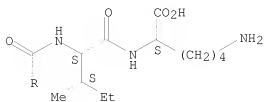
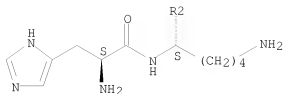
(unclaimed protein sequence; identification, isolation and therapeutic and diagnostic uses of replikins, peptides related to rapid cell replication and high human mortality)

RN 605635-66-3 HCAPLUS

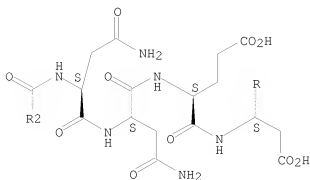
CN L-Lysine, L-histidyl-L-lysyl-L-asparaginyl-L-asparaginyl-L- α -glutamyl-L- α -aspartyl-L-isoleucyl- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



REFERENCE COUNT:

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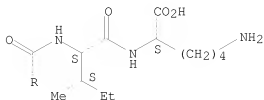
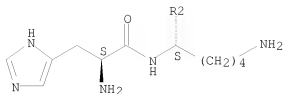
THERE ARE 77 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF 11 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2003:817917 HCAPLUS
 DOCUMENT NUMBER: 139:322282
 TITLE: Replikin peptides and antibodies: diagnosis and therapy
 INVENTOR(S): Bogoch, Samuel; Bogoch, Elenore S.
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 187 pp., Cont.-in-part of U.S. Ser. No. 105,232.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 11
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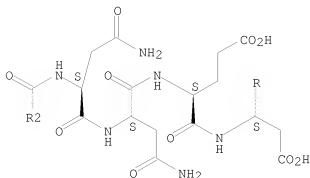
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US 7420028	B2	20080902		
US 20030180328	A1	20030925	US 2002-105232	20020326
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US 20090137778	A1	20090528	US 2008-252028	20081015
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			US 1994-198139	B2 19940217
			US 1998-146755	A2 19980904
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			US 2004-565847P	P 20040428
			US 2004-860050	A2 20040604
			US 2005-653083P	P 20050216
			US 2005-116203	A2 20050428
AB	The authors disclose a new class of peptides related to rapid replication and their use in diagnosing, preventing and treating disease.			
IT	605635-66-3			
	RL: PRP (Properties)			
	(unclaimed sequence; replikin peptides and antibodies, diagnosis and therapy)			
RN	605635-66-3 HCAPLUS			
CN	L-Lysine, L-histidyl-L-lysyl-L-asparaginyl-L-asparaginyl-L- α -glutamyl-L- α -aspartyl-L-isoleucyl- (CA INDEX NAME)			

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)
REFERENCE COUNT: 64 THERE ARE 64 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 5 OF 11 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2003:757014 HCAPLUS
 DOCUMENT NUMBER: 139:275721
 TITLE: Replikin peptides in rapid replication of glioma cells
 and in influenza and malaria epidemics
 INVENTOR(S): Bogoch, Samuel; Bogoch, Elenore S.
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 136 pp., Cont.-in-part of U.S.
 Ser. No. 984,057.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 11
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20030180328	A1	20030925	US 2002-105232	20020326
US 7189800	B2	20070313		
US 20020151677	A1	20021017	US 2001-984057	20011026
US 7420028	B2	20080902		
US 20030194414	A1	20031016	US 2002-189437	20020708
US 7452963	B2	20081118		
CA 2481232	A1	20031009	CA 2003-2481232	20030325
WO 2003083058	A2	20031009	WO 2003-US8990	20030325
WO 2003083058	A3	20060216		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
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AU 2003224758	A1	20031013	AU 2003-224758	20030325
EP 1578922	A2	20050928	EP 2003-721445	20030325
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1893966	A	20070110	CN 2003-810902	20030325
US 20060024669	A1	20060202	US 2005-116203	20050428
US 20070026009	A1	20070201	US 2006-355120	20060216
US 20070053916	A1	20070308	US 2006-590852	20061101
US 20090137778	A1	20090528	US 2008-252028	20081015
US 20090191189	A1	20090730	US 2009-412888	20090327
US 20090269333	A1	20091029	US 2009-495306	20090630
PRIORITY APPLN. INFO.:				
			US 2001-278761P	P 20010327
			US 2001-303396P	P 20010709
			US 2001-984057	A2 20011026
			US 1994-198139	B2 19940217
			US 1998-146755	A2 19980904
			US 2001-817144	A2 20010327
			US 2002-105232	A2 20020326
			US 2002-189437	A2 20020708
			WO 2003-US8990	W 20030325
			US 2003-476186P	P 20030606

US 2003-504958P	P 20030923
US 2003-531686P	P 20031223
US 2004-565847P	P 20040428
US 2004-860050	A2 20040604
US 2005-653083P	P 20050216
US 2005-116203	A2 20050428
US 2006-590852	A3 20061101

AB Peptides of glioma (e.g., malignin), influenza virus hemagglutinin and neuraminidase protein, and Plasmodium falciparum malaria antigen are provided as members of a new family of small peptides related to the phenomenon of rapid replication and designated Replikins. The Replikins have from 7 to about 50 amino acids comprising (1) at least one lysine residue located 6-10 residues from a second lysine residue, (2) at least one histidine residues, and (3) at least 6% lysine residues. Antibodies specific for the peptides, influenza vaccines, malaria vaccines, and methods of stimulating the immune response of a subject to produce antibodies to influenza virus or malaria are disclosed. Also disclosed are methods for formulating vaccines for influenza virus.

IT **605635-66-3**

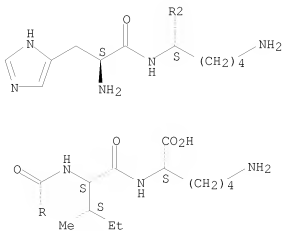
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(from Plasmodium falciparum; Replikin peptides in rapid replication of glioma cells and in influenza and malaria epidemics)

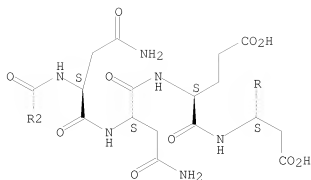
RN 605635-66-3 HCAPLUS

CN L-Lysine, L-histidyl-L-lysyl-L-asparaginyl-L-asparaginyl-L- α -glutamyl-L- α -aspartyl-L-isoleucyl- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A





OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 6 OF 11 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2002:777966 HCAPLUS
 DOCUMENT NUMBER: 137:275674
 TITLE: Sequence homologs of HmWA proteins identified in non-typable Haemophilus influenzae with possible therapeutic uses
 INVENTOR(S): Thonnard, Joelle
 PATENT ASSIGNEE(S): Glaxosmithkline Biologicals S.A., Belg.
 SOURCE: PCT Int. Appl., 109 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE				
WO 2002079237	A2	20021010	WO 2002-EP3210	20020312				
WO 2002079237	A3	20030313						
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG								
CA 2440874	A1	20021010	CA 2002-2440874	20020312				
AU 2002315262	A1	20021015	AU 2002-315262	20020312				
EP 1370577	A2	20031217	EP 2002-740433	20020312				
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR								
US 20040171805	A1	20040902	US 2004-472078	20040402				
PRIORITY APPLN. INFO.:								
			GB 2001-6155	A 20010313				
			GB 2001-6156	A 20010313				
			WO 2002-EP3210	W 20020312				
AB	The invention provides BASB223 and BASB224 polypeptides and polynucleotides encoding BASB223 and BASB224 polypeptides and methods for producing such polypeptides by recombinant techniques. These proteins are sequence homologs of HmWA proteins. Also provided are diagnostic, prophylactic and therapeutic uses.							
IT	466687-73-0 466688-47-1							
RL: PRP (Properties)								
(unclaimed sequence; sequence homologs of HmWA proteins identified in non-typable Haemophilus influenzae with possible therapeutic uses)								
RN	466687-73-0 HCAPLUS							
CN	L-Lysine, glycyl-L-lysyl-L-asparaginyl-L-asparaginyl-L- α -glutamyl-L-methionyl- (9CI) (CA INDEX NAME)							

Absolute stereochemistry.



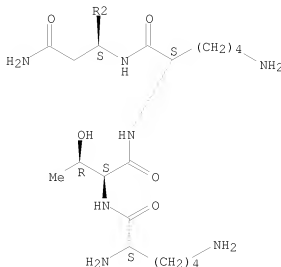
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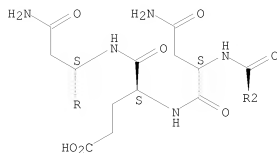
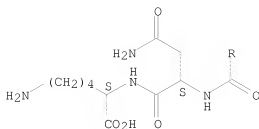
1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 7 OF 11 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2001:483753 HCAPLUS
 DOCUMENT NUMBER: 135:317094
 TITLE: Efficient discovery of immune response targets by
 cyclical refinement of QSAR models of peptide binding
 AUTHOR(S): Brusic, V.; Bucci, K.; Schonbach, C.; Petrovsky, N.;
 Zeleznikow, J.; Kazura, J. W.
 CORPORATE SOURCE: Kent Ridge Digital Labs, BIC-KRDL, Singapore
 SOURCE: Journal of Molecular Graphics & Modelling (2001),
 19(5), 405-411
 CODEN: JMGMTI; ISSN: 1093-3263
 PUBLISHER: Elsevier Science Inc.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Peptides that induce and recall T-cell responses are called T-cell
 epitopes. T-cell epitopes may be useful in a subunit vaccine against
 malaria. Computer models that simulate peptide binding to MHC are useful
 for selecting candidate T-cell epitopes since they minimize the number of
 expts. required for their identification. The authors applied a
 combination of computational and immunol. strategies to select candidate
 T-cell epitopes. A total of 86 exptl. binding assays were performed in
 three rounds of identification of HLA-A11 binding peptides from the six
 pre-erythrocytic malaria antigens. Thirty-six peptides were exptl.
 confirmed as binders. The authors show that the cyclical refinement of
 the ANN models results in a significant improvement of the efficiency of
 identifying potential T-cell epitopes.
 IT **368859-71-6**
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (cyclical refinement of QSAR models predict HLA-A11-restricted T-cell
 epitopes of)
 RN 368859-71-6 HCAPLUS
 CN L-Lysine, L-lysyl-L-threonyl-L-lysyl-L-asparaginyl-L-asparaginyl-L- α -
 glutamyl-L-asparaginyl-L-asparaginyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A





OS.CITING REF COUNT: 23 THERE ARE 23 CAPLUS RECORDS THAT CITE THIS
RECORD (23 CITINGS)
REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 8 OF 11 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2001:435104 HCAPLUS
 DOCUMENT NUMBER: 135:40999
 TITLE: Complementary peptide ligands generated from microbial genome sequences
 INVENTOR(S): Roberts, Gareth Wyn; Heal, Jonathan Richard
 PATENT ASSIGNEE(S): Proteom Limited, UK
 SOURCE: PCT Int. Appl., 161 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001042278	A2	20010614	WO 2000-GB4778	20001213
WO 2001042278	A3	20011108		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG US 20030199011 A1 20031023 US 2000-573822 20000518 EP 1237905 A2 20020911 EP 2000-981489 20001213 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR PRIORITY APPLN. INFO.: GB 1999-29466 A 19991213 WO 2000-GB4778 W 20001213				

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB The invention relates to the identification of complementary peptides from the anal. of protein and nucleotide sequence databases from the microbial genomes including pathogenic microbes. These specific complementary peptides interact with their relevant target proteins encoded in the microbial genome. Specific complementary peptides to the proteins encoded in the microbial genome can be used as reagents and drugs from drug discovery programs and as lead ligands to facilitate drug design and development.

IT **344601-35-0**

RL: PRP (Properties)

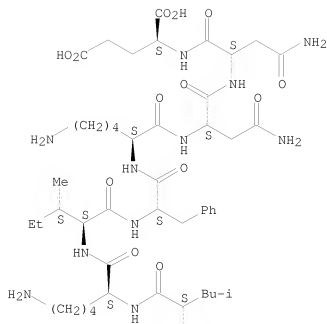
(unclaimed sequence; complementary peptide ligands generated from microbial genome sequences)

RN 344601-35-0 HCAPLUS

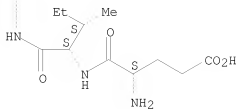
CN L-Glutamic acid, L- α -glutamyl-L-isoleucyl-L-leucyl-L-lysyl-L-isoleucyl-L-phenylalanyl-L-lysyl-L-asparaginyl-L-asparaginyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



REFERENCE COUNT:

5

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 9 OF 11 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2001:12663 HCAPLUS

DOCUMENT NUMBER: 134:85124

TITLE: Cancer associated antigens and uses therefor

INVENTOR(S): Sahin, Ugur; Tureci, Ozlem; Pfreundschuh, Michael

PATENT ASSIGNEE(S): Ludwig Institute for Cancer Research, USA

SOURCE: PCT Int. Appl., 128 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001000874	A2	20010104	WO 2000-US17207	20000623
WO 2001000874	A3	20020502		
W: AU, CA, CN, JP, KR				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 1218538	A2	20020703	EP 2000-941644	20000623
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
JP 2003527826	T	20030924	JP 2001-506864	20000623
PRIORITY APPLN. INFO.:				
			US 1999-346498	A 19990630
			WO 2000-US17207	W 20000623

AB Cancer associated antigens have been identified by autologous antibody screening of libraries of nucleic acids expressed in testis cells using antisera from seminoma patients. The invention relates to nucleic acids and encoded polypeptides which are cancer associated antigens expressed in patients afflicted with a variety of cancers. The invention provides, inter alia, isolated nucleic acid mols., expression vectors containing those mols. and host cells transfected with those mols. The invention also provides isolated proteins and peptides, antibodies to those proteins and peptides and cytotoxic T lymphocytes which recognize the proteins and peptides. Fragments of the foregoing including functional fragments and variants also are provided. Kits containing the foregoing mols. addnl. are provided. The mols. provided by the invention can be used in the diagnosis, monitoring, research, or treatment of conditions characterized by the expression of one or more cancer associated antigens.

IT 317804-03-8 317804-04-9

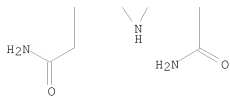
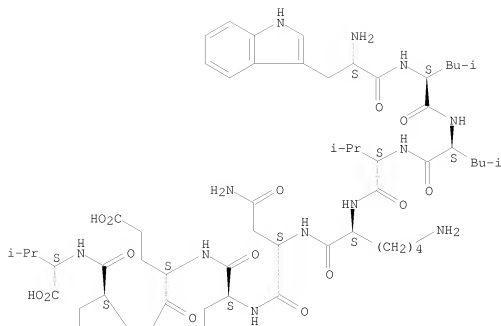
RL: PRP (Properties)

(unclaimed sequence; cancer associated antigens and uses therefor)

RN 317804-03-8 HCAPLUS

CN L-Valine, L-tryptophyl-L-leucyl-L-leucyl-L-valyl-L-lysyl-L-asparaginy-L-asparaginy-L- α -glutamyl-L-glutaminy-L (9CI) (CA INDEX NAME)

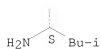
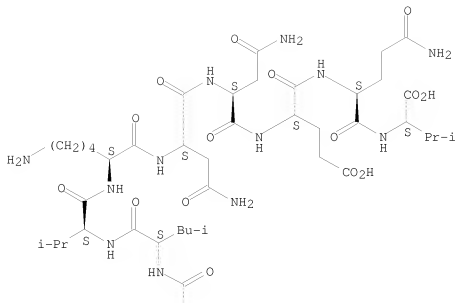
Absolute stereochemistry.



RN 317804-04-9 HCAPLUS

CN L-Valine, L-leucyl-L-leucyl-L-valyl-L-lysyl-L-asparaginyll-L-asparaginyll-L-
α-glutamyl-L-glutaminyll- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
(2 CITINGS)

L3 ANSWER 10 OF 11 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1999:626211 HCAPLUS

DOCUMENT NUMBER: 131:267042

TITLE: Use of inhibitors of mammalian asparaginyl endopeptidase for therapy of autoimmune disease

INVENTOR(S): Watts, Colin

PATENT ASSIGNEE(S): University of Dundee, UK

SOURCE: PCT Int. Appl., 94 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9948910	A1	19990930	WO 1999-GB963	19990326
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RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2323063	A1	19990930	CA 1999-2323063	19990326
AU 9931582	A	19991018	AU 1999-31582	19990326
AU 756356	B2	20030109		
EP 1066315	A1	20010110	EP 1999-913464	19990326
EP 1066315	B1	20080528		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, AL, MK				
JP 2002507623	T	20020312	JP 2000-537892	19990326
IL 138048	A	20060312	IL 1999-138048	19990326
AT 397011	T	20080615	AT 1999-913464	19990326
IN 2000MN00384	A	20050715	IN 2000-MN384	20000908
PRIORITY APPLN. INFO.:			GB 1998-6442	A 19980326
			US 1998-86966P	P 19980528
			WO 1999-GB963	W 19990326

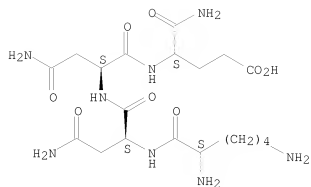
AB A method of modulating the immune response in a patient in need of such modulation comprises administering to the patient an effective amount of an inhibitor of asparaginyl endopeptidase. A method of reducing the processing of a protein antigen by a MHC Class II mol. by a cell comprises contacting the cell with an inhibitor of asparaginyl endopeptidase.

IT **245036-47-9D**, amino- and carboxyl-terminal-blocked
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (asparaginyl endopeptidase inhibitors for immunomodulators)

RN 245036-47-9 HCAPLUS

CN L- α -Glutamine, L-lysyl-L-asparaginyl-L-asparaginyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



OS.CITING REF COUNT:	1	THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
REFERENCE COUNT:	5	THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 11 OF 11 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1999:24490 HCAPLUS

DOCUMENT NUMBER: 130:195463

TITLE: An asparaginyl endopeptidase processes a microbial antigen for class II MHC presentation

AUTHOR(S): Manoury, Benedicte; Hewitt, Eric W.; Morrice, Nick; Dando, Pam M.; Barrett, Alan J.; Watts, Colin

CORPORATE SOURCE: Department of Biochemistry, Wellcome Sciences Building, University of Dundee, Dundee, DD1 5EH, UK

SOURCE: Nature (London) (1998), 396(6712), 695-699

CODEN: NATUAS; ISSN: 0028-0836

PUBLISHER: Macmillan Magazines

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Foreign protein antigens must be broken down within endosomes or lysosomes to generate suitable peptides that will form complexes with class II major histocompatibility complex mols. for presentation to T cells. However, it is not known which proteases are required for antigen processing. To investigate this, the authors exposed a domain of the microbial tetanus toxin antigen (TTCF) to disrupted lysosomes that had been purified from a human B-cell line. Here the authors show that the dominant processing activity is not one of the known lysosomal cathepsins, which are generally believed to be the principal enzymes involved in antigen processing, but is instead an asparagine-specific cysteine endopeptidase. This enzyme seems similar or identical to a mammalian homolog of the legumain/hemoglobinase asparaginyl endopeptidases found originally in plants and parasites. The authors designed competitive peptide inhibitors of B-cell asparaginyl endopeptidase (AEP) that specifically block its proteolytic activity and inhibit processing of TTCF in vitro. In vivo, these inhibitors slow TTCF presentation to T cells, whereas preprocessing of TTCF with AEP accelerates its presentation, indicating that this enzyme performs a key step in TTCF processing. The authors also show that N-glycosylation of asparagine residues blocks AEP action in vitro. This indicates that N-glycosylation could eliminate sites of processing by AEP in mammalian proteins, allowing preferential processing of microbial antigens.

IT 220701-07-5

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

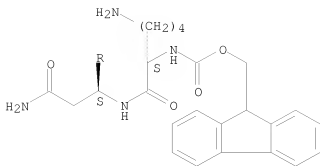
(as inhibitor of asparaginyl endopeptidase of human B-cell)

RN 220701-07-5 HCAPLUS

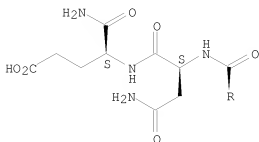
CN L- α -Glutamine, N2-[(9H-fluoren-9-ylmethoxy)carbonyl]-L-lysyl-L-asparaginyl-L-asparaginyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



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OS.CITING REF COUNT:      179  THERE ARE 179 CAPLUS RECORDS THAT CITE THIS
                             RECORD (179 CITINGS)
REFERENCE COUNT:          21  THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS
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DICTIONARY FILE UPDATES: 15 MAR 2010 HIGHEST RN 1210111-73-1

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=> s l1 and sql<=20
4969317 SQL<=20
L4 78 L1 AND SQL<=20

=> fil hcap		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	5.99	111.87
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-9.35

FILE 'HCAPLUS' ENTERED AT 15:30:54 ON 16 MAR 2010
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FILE COVERS 1907 - 16 Mar 2010 VOL 152 ISS 12
FILE LAST UPDATED: 15 Mar 2010 (20100315/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2009

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=> d his

(FILE 'HOME' ENTERED AT 15:28:28 ON 16 MAR 2010)

FILE 'REGISTRY' ENTERED AT 15:28:52 ON 16 MAR 2010

L1 12915 S KINNE/SQSP
L2 15 S L1 AND SQL<=10

FILE 'HCAPLUS' ENTERED AT 15:29:41 ON 16 MAR 2010

L3 11 L2

FILE 'REGISTRY' ENTERED AT 15:30:34 ON 16 MAR 2010

L4 78 S L1 AND SQL<=20

FILE 'HCAPLUS' ENTERED AT 15:30:54 ON 16 MAR 2010

=> 14 and (pd<19980101)

28 L4
19153499 PD<19980101
(PD<19980101)

L5 3 L4 AND (PD<19980101)

=> d 15 ibib abs hitstr 1-3

L5 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1999:24490 HCAPLUS

DOCUMENT NUMBER: 130:195463

TITLE: An asparaginyl endopeptidase processes a microbial antigen for class II MHC presentation

AUTHOR(S): Manoury, Benedicte; Hewitt, Eric W.; Morrice, Nick; Dando, Pam M.; Barrett, Alan J.; Watts, Colin

CORPORATE SOURCE: Department of Biochemistry, Wellcome Sciences Building, University of Dundee, Dundee, DD1 5EH, UK

SOURCE: Nature (London) (1998), 396(6712), 695-699

CODEN: NATUAS; ISSN: 0028-0836

PUBLISHER: Macmillan Magazines

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Foreign protein antigens must be broken down within endosomes or lysosomes to generate suitable peptides that will form complexes with class II major histocompatibility complex mols. for presentation to T cells. However, it is not known which proteases are required for antigen processing. To investigate this, the authors exposed a domain of the microbial tetanus toxin antigen (TTCF) to disrupted lysosomes that had been purified from a human B-cell line. Here the authors show that the dominant processing activity is not one of the known lysosomal cathepsins, which are generally believed to be the principal enzymes involved in antigen processing, but is instead an asparagine-specific cysteine endopeptidase. This enzyme seems similar or identical to a mammalian homolog of the legumain/hemoglobinase asparaginyl endopeptidases found originally in plants and parasites. The authors designed competitive peptide inhibitors of B-cell asparaginyl endopeptidase (AEP) that specifically block its proteolytic activity and inhibit processing of TTCF in vitro. In vivo, these inhibitors slow TTCF presentation to T cells, whereas preprocessing of TTCF with AEP accelerates its presentation, indicating that this enzyme performs a key step in TTCF processing. The authors also show that N-glycosylation of asparagine residues blocks AEP action in vitro. This indicates that N-glycosylation could eliminate sites of processing by AEP in mammalian proteins, allowing preferential processing of microbial antigens.

IT 220701-07-5

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

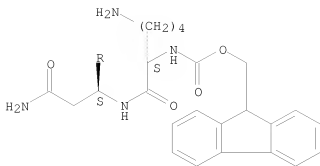
(as inhibitor of asparaginyl endopeptidase of human B-cell)

RN 220701-07-5 HCAPLUS

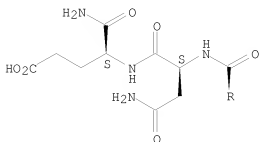
CN L- α -Glutamine, N2-[(9H-fluoren-9-ylmethoxy)carbonyl]-L-lysyl-L-asparaginyl-L-asparaginyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



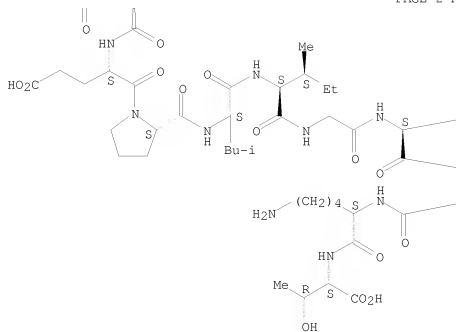
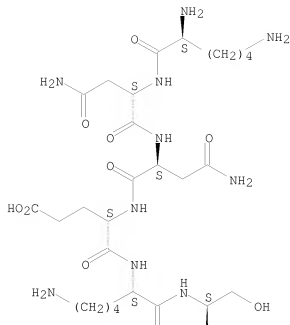
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OS.CITING REF COUNT:      179  THERE ARE 179 CAPLUS RECORDS THAT CITE THIS
                             RECORD (179 CITINGS)
REFERENCE COUNT:          21  THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS
                             RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
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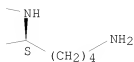
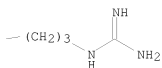
L5 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 1996:638572 HCAPLUS
 DOCUMENT NUMBER: 125:301596
 ORIGINAL REFERENCE NO.: 125:56463a,56466a
 TITLE: Role of isoelectric point and hydrophobicity index of
 the sequence in synthesis of multiple antigen peptides
 AUTHOR(S): Yadav, Satya P.
 CORPORATE SOURCE: Biotechnology Support Facility, University Kansas,
 Kansas City, KS, 66160, USA
 SOURCE: Biochemical Archives (1996), 12(3), 187-194
 CODEN: BIAREM; ISSN: 0749-5331
 PUBLISHER: MBR Press, Inc.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Multiple Antigen Peptides (MAPs) in length from 7- to 18-mer were
 synthesized on a multiple peptide synthesizer and characterized by amino
 acid anal. The amino acid compns. of MAPs were in good agreement with
 their sequences. The yield of MAPs (nmoles) is significantly correlated
 to the pI of peptides. The correlation coefficient of nmoles yield of MAPs vs
 pI was 0.66, while the correlation coefficient between hydrophobicity index and
 the nmoles yield of MAP is - 0.60.
 IT **183024-18-2P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (role of isoelec. point and hydrophobicity index in preparation of multiple
 antigen peptides)
 RN 183024-18-2 HCAPLUS
 CN β -Alanine, N-[N2,N6-bis[N2,N6-bis[N2,N6-bis[N-[N2-[N2-[N2-[N-[1-[N-[N-
 [N2-[N2-(N2-L-seryl)-L-lysyl]-L-asparaginy]-L-asparaginy]-L-
 glutamyl]-L-seryl]-L-prolyl]-L-threonyl]-L-arginy]-L-glutaminy]-L-lysyl]-
 L-leucyl]-L-lysyl]-L-lysyl]-L-lysyl]- (9CI) (CA INDEX NAME)
 *** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
 OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
 (1 CITINGS)

L5 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 1995:189989 HCAPLUS
 DOCUMENT NUMBER: 122:1061
 ORIGINAL REFERENCE NO.: 122:255a,258a
 TITLE: Synthetic fibronectin fragments as inhibitors of
 retroviral infections
 INVENTOR(S): Wahl, Sharon M.; McCarthy, James B.; Furcht, Leo T.
 PATENT ASSIGNEE(S): Regents of the University of Minnesota, USA; United
 States Dept. of Health and Human Services
 SOURCE: PCT Int. Appl., 22 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9417097	A1	19940804	WO 1994-US729	19940119 <--
W: CA, JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5545620	A	19960813	US 1994-291349	19940816 <--
PRIORITY APPLN. INFO.: US 1993-6121 A 19930119				
AB	Retroviral infections, e.g. by HIV, are inhibited using conjugates of defined fragments of fibronectins to carriers such as ovalbumin. These conjugates may be used in conjunction with anti-retroviral antibiotics. The ability of these conjugates to inhibit retrovirus replication in cell culture is demonstrated.			
IT	158923-03-6D , conjugates with ovalbumin			
	RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)			
	(amino acid sequence; synthetic fibronectin fragments as inhibitors of retroviral infections)			
RN	158923-03-6 HCAPLUS			
CN	L-Threonine, L-lysyl-L-asparaginy-L-asparaginy-L- α -glutamyl-L-lysyl-L-seryl-L- α -glutamyl-L-prolyl-L-leucyl-L-isoleucylglycyl-L-arginyl-L-lysyl-L-lysyl- (9CI) (CA INDEX NAME)			

Absolute stereochemistry.





OS.CITING REF COUNT:	3	THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)
REFERENCE COUNT:	1	THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT


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=> fil reg
COST IN U.S. DOLLARS                SINCE FILE      TOTAL
                                     ENTRY      SESSION
FULL ESTIMATED COST                26.75      138.62

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)  SINCE FILE      TOTAL
                                     ENTRY      SESSION
CA SUBSCRIBER PRICE                -2.55      -11.90
```

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DICTIONARY FILE UPDATES: 15 MAR 2010  HIGHEST RN 1210111-73-1
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```
=> fil reg
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                                     ENTRY      SESSION
FULL ESTIMATED COST                5.39      144.01

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)  SINCE FILE      TOTAL
                                     ENTRY      SESSION
CA SUBSCRIBER PRICE                0.00      -11.90
```

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```
STRUCTURE FILE UPDATES:  15 MAR 2010  HIGHEST RN 1210111-73-1
DICTIONARY FILE UPDATES: 15 MAR 2010  HIGHEST RN 1210111-73-1
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TSCA INFORMATION NOW CURRENT THROUGH January 8, 2010.

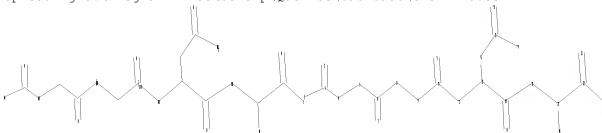
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\09646950\Claim 20.str



```
chain nodes :
1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 25
chain bonds :
1-2 1-3 1-4 4-5 5-6 6-7 6-8 8-9 9-10 10-11 10-12 12-13 13-14 13-16
14-15 14-20 16-17 17-18 17-19 20-21 21-22 21-24 22-23 22-25
exact/norm bonds :
1-2 1-4 4-5 6-7 6-8 8-9 10-11 10-12 12-13 14-15 14-20 17-18 17-19
20-21 21-24 22-23 22-25
exact bonds :
1-3 5-6 9-10 13-14 13-16 16-17 21-22
```

Match level :

```
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom
```

L6 STRUCTURE UPLOADED

=> dis

09/646,950

L6 HAS NO ANSWERS
L6 STR

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

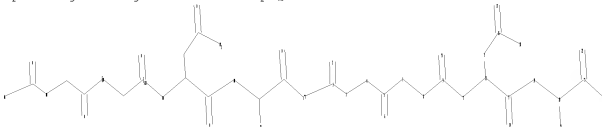
Structure attributes must be viewed using STN Express query preparation.

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FULL SEARCH INITIATED 15:40:35 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 12 TO ITERATE

100.0% PROCESSED 12 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L7 0 SEA SSS FUL L6

=>
Uploading C:\Program Files\Stnexp\Queries\09646950\Claim 20a.str



chain nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 27
chain bonds :
1-2 1-3 1-27 3-4 4-5 5-6 5-7 7-8 8-9 9-10 9-11 11-12 12-13 12-15
13-14 13-19 15-16 16-17 16-18 19-20 20-21 20-23 21-22 21-24
exact/norm bonds :
1-2 1-3 1-27 3-4 5-6 5-7 7-8 9-10 9-11 11-12 13-14 13-19 16-17 16-18
19-20 20-23 21-22 21-24
exact bonds :
4-5 8-9 12-13 12-15 15-16 20-21

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 27:Atom

09/646,950

L8 STRUCTURE UPLOADED

=> dis

L8 HAS NO ANSWERS

L8 STR

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

=> s l8 sss full

FULL SEARCH INITIATED 15:41:48 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 12 TO ITERATE

100.0% PROCESSED 12 ITERATIONS

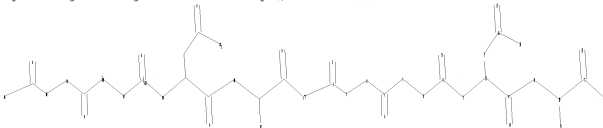
0 ANSWERS

SEARCH TIME: 00.00.01

L9 0 SEA SSS FUL L8

=>

Uploading C:\Program Files\Stnexp\Queries\09646950\Claim 20b.str



chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

24 27

chain bonds :

1-2 1-3 1-27 3-4 4-5 5-6 5-7 7-8 8-9 9-10 9-11 11-12 12-13 12-15

13-14 13-19 15-16 16-17 16-18 19-20 20-21 20-23 21-22 21-24

exact/norm bonds :

1-2 1-3 1-27 3-4 5-6 5-7 7-8 9-10 9-11 11-12 13-14 13-19 16-17 16-18

19-20 20-23 21-22 21-24

exact bonds :

4-5 8-9 12-13 12-15 15-16 20-21

09/646,950

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 27:Atom

L10 STRUCTURE UPLOADED

=> s l10 sss full

FULL SEARCH INITIATED 15:43:01 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 12 TO ITERATE

100.0% PROCESSED 12 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

L11 0 SEA SSS FUL L10

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

575.60

719.61

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

0.00

-11.90

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DICTIONARY FILE UPDATES: 15 MAR 2010 HIGHEST RN 1210111-73-1

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=> s NC/sqep

18 NC/SQEP

3490 SQL=2

09/646,950

L12 18 NC/SQEP
(NC/SQEP AND SQL=2)

=> fil hcap		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	8.34	727.95
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-11.90

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FILE LAST UPDATED: 15 Mar 2010 (20100315/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2009

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=> l12
L13 13 L12
=> d l13 ibib abs hitstr 1-13

L13 ANSWER 1 OF 13 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2006:1298870 HCAPLUS

DOCUMENT NUMBER: 147:362876

TITLE: Comparison of lipopeptide-based immunocontraceptive vaccines containing different lipid groups

AUTHOR(S): Chua, Brendon Y.; Zeng, Weiguang; Lau, Yuk Fai; Jackson, David C.

CORPORATE SOURCE: Cooperative Research Centre for Vaccine Technology, Department of Microbiology and Immunology, The University of Melbourne, Parkville, 3010, Australia

SOURCE: Vaccine (2007), 25(1), 92-101
CODEN: VACCDE; ISSN: 0264-410X

PUBLISHER: Elsevier Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB We have previously shown that incorporating the lipid moiety dipalmitoyl-S-glyceryl cysteine (Pam2Cys) into peptide structures effectively adjuvants otherwise weak immunogens. In this study lipopeptides based on LH releasing hormone (LHRH) as a B cell epitope, [B], were synthesized in tandem with a 17-residue T-helper epitope, [T], derived from the fusion protein of the morbillivirus canine distemper virus. In this way vaccine candidates with the structure [T]-[B] were produced. These peptides were then lipidated with different diacylated moieties. The acyl moieties used were: palmitic acid (C16) to give Pam2Cys, stearic acid (C18) to give Ste2Cys, lauric acid (C12) to give Lau2Cys and octanoic acid (C8) to give Oct2Cys. We compared the immunogenicities of these simple lipopeptides in BALB/c mice by measuring their ability to induce anti-LHRH antibodies and found that immunogenicity was dependent on the length of the alkane chains of the incorporated lipid moieties with the hierarchy C16 = C18 > C12 > C8. The antibody levels elicited by the lipopeptides also correlated with their ability to inhibit the reproductive capability of female mice in fertility trials. Furthermore, the C16 lipopeptide was the most effective in activating dendritic cells, measured by up regulation of surface MHC Class II mols., and also in activating NF- κ B in a Toll-like receptor-2 (TLR2)-dependent manner.

IT 949112-58-7P

RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(lipopeptide-based immunocontraceptive vaccines containing LHRH and T-helper peptides)

RN 949112-58-7 HCAPLUS

CN Glycinamide, L-lysyl-L-leucyl-L-isoleucyl-L-prolyl-L-asparaginyl-L-alanyl-L-seryl-L-leucyl-L-isoleucyl-L- α -glutamyl-L-asparaginyl-L-cysteinyl-L-threonyl-L-lysyl-L-alanyl-L- α -glutamyl-L-leucyl-N6-[S-[2,3-bis[(1-oxohexadecyl)oxyl]propyl]-L-cysteinyl-6-aminohehexanoyl]-L-lysyl-5-oxo-L-prolyl-L-histidyl-L-tryptophyl-L-seryl-L-tyrosylglycyl-L-leucyl-L-arginyl-L-prolyl- (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 2 OF 13 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2006:558785 HCAPLUS

DOCUMENT NUMBER: 145:69756

TITLE: Erythropoietin receptor-binding peptides, peptide derivatives, and dimers for treatment of diseases

INVENTOR(S): Holmes, Christopher P.; Yin, Qun; Zemede, Genet; Bhandari, Ashok; Dong, Yaohua S.; Tumelty, David; Lalonde, Guy; Palani, Balu; Schatz, Peter J.; Wrighton, Nicholas C.; Dower, William J.; Frederick, Brian T.; Chakrabarti, Anjan

PATENT ASSIGNEE(S): Affymax, Inc., USA

SOURCE: PCT Int. Appl., 72 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006062685	A2	20060615	WO 2005-US41112	20051111
WO 2006062685	A3	20061019		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RM:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
US 20080108564	A1	20080508	US 2007-735106	20070413
PRIORITY APPLN. INFO.:			US 2004-627432P	P 20041111
			US 2005-271524	B1 20051110
			US 2006-497547	A1 20060731

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB The present invention relates to peptide compds. that are agonists of the erythropoietin receptor (EPO-R). The invention further relates to therapeutic methods using such peptide compds. to treat disorders associated with insufficient or defective red blood cell production. Pharmaceutical compns., which comprise the peptide compds. of the invention, are also provided.

IT 890142-41-3

RL: PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(erythropoietin receptor-binding peptides, pharmaceutical compns., and therapeutic use)

RN 890142-41-3 HCAPLUS

CN L-Lysinamide, 17N6,17'N6-[[[3-[[[1,1-dimethylethoxy]carbonyl]amino]-1-oxopropyl]imino]bis(1-oxo-2,1-ethanediy)]bis[N-acetyl-L- α -aspartyl-L-tyrosyl-L-asparaginyl-L-cysteinyl-L-arginyl-L-phenylalanylglycyl-L-prolyl-L-leucyl-L-threonyl-L-tryptophyl-L-valyl-L-cysteinyl-L-arginyl-L-prolyl-L-seryl-, cyclic (4+13), (4'+13')-bis(disulfide) (9CI)
(CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 3 OF 13 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2006:542290 HCAPLUS

DOCUMENT NUMBER: 145:55979

TITLE: Peptides that bind to the erythropoietin receptor, pharmaceutical compositions, and therapeutic use

INVENTOR(S): Holmes, Christopher P.; Yin, Qun; Zemed, Genet; Bhandari, Ashok; Dong, Yaohua S.; Tumelty, David; Lalonde, Guy; Palani, Balu; Schatz, Peter J.; Wrighton, Nicholas C.; Dower, William J.; Frederick, Brian T.; Chakrabarti, Anjan

PATENT ASSIGNEE(S): Affymax, Inc., USA

SOURCE: PCT Int. Appl., 72 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006060148	A2	20060608	WO 2005-US41113	20051111
WO 2006060148	A3	20061005		
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RM:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
AU 2005310189	A1	20060608	AU 2005-310189	20051111
CA 2587382	A1	20060608	CA 2005-2587382	20051111
EP 1814910	A2	20070808	EP 2005-851595	20051111
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU			
JP 2008519858	T	20080612	JP 2007-541390	20051111
MX 2007005777	A	20070720	MX 2007-5777	20070511
IN 2007KN01986	A	20070810	IN 2007-KN1986	20070601
NO 2007002888	A	20070809	NO 2007-2888	20070606
KR 2007108140	A	20071108	KR 2007-713156	20070611
CN 101142234	A	20080312	CN 2005-80046227	20070709
US 20090005292	A1	20090101	US 2008-718998	20080116
PRIORITY APPLN. INFO.:			US 2004-627433P	P 20041111
			WO 2005-US41113	W 20051111

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB The invention provides peptide compds. that are agonists of the erythropoietin receptor. The invention further provides therapeutic methods using such peptide compds. to treat disorders associated with insufficient or defective red blood cell production. Pharmaceutical compns. which comprise the peptide compds. are also provided.

IT **890142-41-3**

RL: PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic

use); BIOL (Biological study); USES (Uses)
 (erythropoietin receptor-binding peptides, pharmaceutical compns., and
 therapeutic use)

RN 890142-41-3 HCAPLUS

CN L-Lysinamide, 17N6,17'N6-[[[3-[[[(1,1-dimethylethoxy)carbonyl]amino]-1-oxopropyl]imino]bis(1-oxo-2,1-ethanediyl)]bis[N-acetyl-L- α -aspartyl-L-tyrosyl-L-asparaginyL-L-cysteinyl-L-arginyl-L-phenylalanylglycyl-L-prolyl-L-leucyl-L-threonyl-L-tryptophyl-L-valyl-L-cysteinyl-L-arginyl-L-prolyl-L-seryl-, cyclic (4 \rightarrow 13), (4' \rightarrow 13')-bis(disulfide) (9CI)
 (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 4 OF 13 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2000:288768 HCAPLUS

DOCUMENT NUMBER: 133:84482

TITLE: Metabolism of desmopressin
([8-D-arginine]deaminovasopressin) by the enzymes of
gastrointestinal tractAUTHOR(S): Barth, Tomislav; Velek, Jiri; Barthova, Jana; Velkova,
Vlasta; Jezek, Jan; Hauzerova, Linda; Kasicka, Vaclav;
Urbik, Karel; Machova, Alena; Vilhardt, Hans
CORPORATE SOURCE: Institute of Organic Chemistry and Biochemistry,
Prague, Czech Rep.SOURCE: Peptides 1998, Proceedings of the European Peptide
Symposium, 25th, Budapest, Aug. 30-Sept. 4, 1998 (1999
, Meeting Date 1998, 862-863. Editor(s): Bajusz, Sandor; Hudecz, Ferenc.
Akademiai Kiado: Budapest, Hung.

CODEN: 68WKAY

DOCUMENT TYPE: Conference

LANGUAGE: English

AB Desmopressin ([8-D-arginine]deaminovasopressin) is a synthetic peptide known for its prolonged antidiuretic effect, which has been attributed to its strong metabolic stability. The aim of this study was to characterize the interactions of desmopressin with a number of gastrointestinal enzymes and to synthesize and characterize expected desmopressin degradation peptides (which are then further stabilized against enzymic degradation). The results revealed that only the treatment of desmopressin by chymotrypsin resulted in the destruction of the peptide, while treatment with endoprollyptidase showed only a slight decrease in biol. potency, and treatment with pepsin revealed no decrease in potency. Five expected desmopressin degradation peptides were synthesized and then characterized (using the antidiuretic biol. assay), and the results showed that none of the compds. was biol. potent (up to doses of 5 μ moles per kg/bw). The results also revealed that in the in vitro assay (isolated rat uterus), no compound had any agonistic or antagonistic effect. In conclusion, the expected products of chymotryptic degradation of desmopressin were synthesized, subjected to physicochem. anal. and biol. evaluation and were shown to be devoid of the antidiuretic properties of desmopressin.

IT **281198-09-2P 281198-10-5P 281198-11-6P**

RL: BAC (Biological activity or effector, except adverse); BPN
(Biosynthetic preparation); BSU (Biological study, unclassified); BIOL
(Biological study); PREP (Preparation)

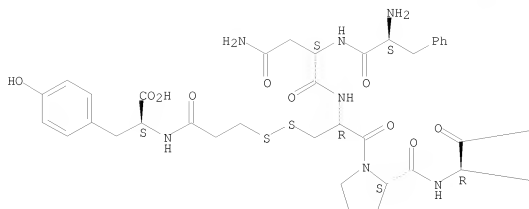
(desmopressin metabolism by enzymes of gastrointestinal tract and
antidiuretic properties of synthesized desmopressin degradation peptides)

RN 281198-09-2 HCAPLUS

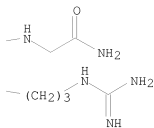
CN Glycinamide, L-phenylalanyl-L-asparaginy-3-[[3-[[[(1S)-1-carboxy-2-(4-
hydroxyphenyl)ethyl]amino]-3-oxopropyl]dithio]-L-alanyl-L-prolyl-D-arginyl-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



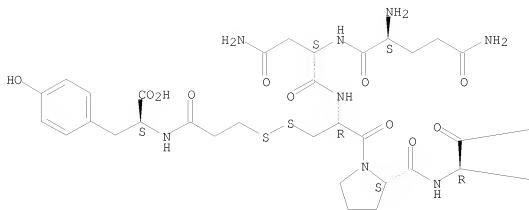
PAGE 1-B



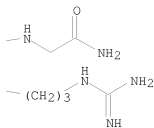
RN 281198-10-5 HCAPLUS
 CN Glycinamide, L-glutaminyL-L-asparaginyL-L-cysteinyl-L-prolyl-D-arginyl-,
 (3-1')-disulfide with N-(3-mercapto-1-oxopropyl)-L-tyrosine (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

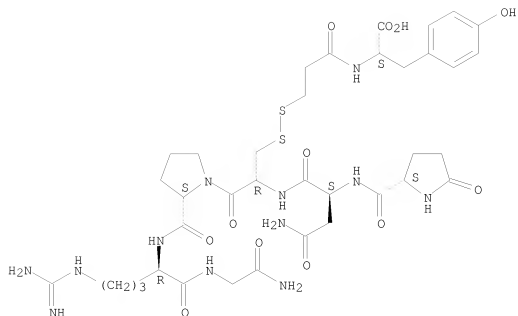


PAGE 1-B



RN 281198-11-6 HCAPLUS
 CN Glycinamide, 5-oxo-L-prolyl-L-asparaginyl-L-cysteinyl-L-prolyl-D-arginyl-,
 (3-1')-disulfide with N-(3-mercapto-1-oxopropyl)-L-tyrosine (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



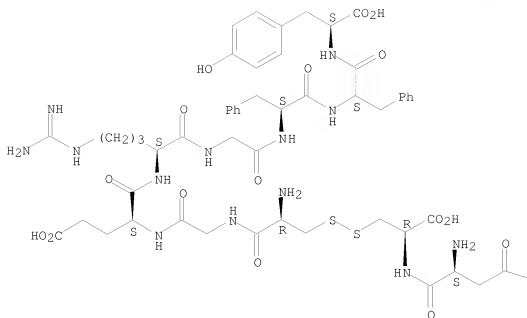
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(1 CITINGS)

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 5 OF 13 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 1999:416503 HCAPLUS
 DOCUMENT NUMBER: 131:180065
 TITLE: Synthetic insulin fragment with insulin-like
 biological activity
 AUTHOR(S): Prozorovskiy, V. N.; Maksimova, E. M.; Alekseeva, A.
 E.; Grebenshikova, O. G.; Abakumova, O. Yu.;
 Kutsenko, N. G.; Ivanov, A. S.; Kniazhev, V. N.;
 Archakov, A. I.
 CORPORATE SOURCE: Institute of Biomedical Chemistry, Russian Academy of
 Medical Science, Moscow, 119832, Russia
 SOURCE: Biochemistry and Molecular Biology International
 (1999), 47(6), 957-963
 CODEN: BMBIES; ISSN: 1039-9712
 PUBLISHER: Taylor & Francis Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB An insulin fragment, representing the C-terminal functionally important
 site of its mol. and responsible for receptor binding, was synthesized.
 The fragment consists of two peptides: a dipeptide (A 20-21) and an
 octapeptide (B 19-26), linked with a disulfide bond (A20 - B19). The
 biol. activity of the newly synthesized fragment relative to insulin was
 assayed for the influence on glycogenesis and for the ability to stimulate
 glucose uptake. Comparative tests for the biol. activity of the
 synthesized fragment and of the intact hormone allowed us to conclude that
 the fragment has insulin-like properties.
 IT **240488-51-1P**
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological
 study, unclassified); PUR (Purification or recovery); SPN (Synthetic
 preparation); BIOL (Biological study); PREP (Preparation)
 (synthetic insulin fragment with insulin-like biol. activity)
 RN 240488-51-1 HCAPLUS
 CN L-Tyrosine, L-cysteinyglycyl-L- α -glutamyl-L-arginylglycyl-L-
 phenylalanyl-L-phenylalanyl-, (1 \rightarrow 2')-disulfide with
 L-asparaginy-L-cysteine (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



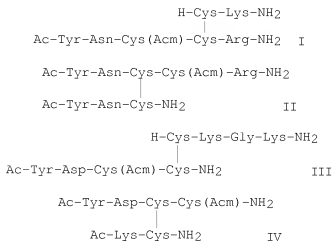
PAGE 1-B

NH₂

OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD
(4 CITINGS)
REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 6 OF 13 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 1994:580178 HCAPLUS
 DOCUMENT NUMBER: 121:180178
 ORIGINAL REFERENCE NO.: 121:32739a,32742a
 TITLE: Synthesis of disulfide-bridged fragments of
 ø-conotoxins GVIA and MVIIA: use of Npys as a
 protecting/activating group for cysteine in Fmoc
 syntheses
 AUTHOR(S): Simmonds, Robin G.; Tupper, David E.; Harris, John R.
 CORPORATE SOURCE: Lilly Res. Cent. Ltd., Eli Lilly and Co.,
 Windlesham/Surrey, UK
 SOURCE: International Journal of Peptide & Protein Research
 (1994), 43(4), 363-6
 CODEN: IJPPC3; ISSN: 0367-8377
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 121:180178
 GI



AB The 3-nitro-2-pyridinesulphenyl (Npys) moiety is finding increasing utility as a protecting-activating group for cysteine, particularly in the synthesis of cyclic and unsym. disulfides using the Boc strategy. This chemical has been extended to peptides assembled by the Fmoc strategy. N-terminal Cys(Npys) is introduced via Boc-Cys(Npys)-OPfp. Non-N-terminal Cys(Npys) is incorporated by reacting a resin-bound, fully protected Cys(Acm) peptide with NpysCl. This approach has been applied to the synthesis of disulfide-bridged fragments I, II, III and IV of ø-conotoxins GVIA and MVIIA.

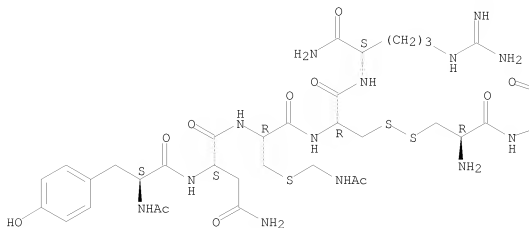
IT **157675-23-5P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, nitropyridinesulphenyl group as protecting/activating group for)

RN 157675-23-5 HCAPLUS
 CN L-Argininamide, N-acetyl-L-tyrosyl-L-asparaginyll-S-[(acetylamino)methyl]-L-

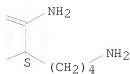
cysteiny-L-cysteiny-, (4+1')-disulfide with
L-cysteiny-L-lysynamide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



OS.CITING REF COUNT: 15 THERE ARE 15 CAPLUS RECORDS THAT CITE THIS
RECORD (15 CITINGS)

L13 ANSWER 7 OF 13 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1993:162824 HCAPLUS

DOCUMENT NUMBER: 118:162824

ORIGINAL REFERENCE NO.: 118:27777a,27780a

TITLE: Synthesis and characterization of a disulfide bond isomer of omega-conotoxin GVIA

AUTHOR(S): Pennington, M. W.; Festin, S. M.; Maccacchini, M. L.; Kem, W. R.

CORPORATE SOURCE: Dep. Pept. Chem., BACHEM Biosci. Inc., Philadelphia, PA, 19104, USA

SOURCE: Toxicon (1992), 30(7), 755-64

CODEN: TOXIA6; ISSN: 0041-0101

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Solid phase peptide synthesis and air oxidation of ω -conotoxin GVIA yielded, in addition to the desired product, an isomeric peptide which could be completely separated from the native toxin by repeated HPLC. A chymotrypsin-trypsin digest of this peptide, when subjected to HPLC peptide mapping, provided peptides identical with synthetic disulfide containing peptides predicted for the ω -conotoxin isomer containing C1-C2, C3-C5, C4-C6 cystinyl pairings. The shaking potency (ED50 = 1500 pmoles/kg, i.c.v.) of the isomeric peptide upon cannulated rats was 1.3% of the potency of native conotoxin (ED50 = 20 pmol/kg). Considering that all three disulfide pairings in the isomer are different from the native toxin, its retention of biol. activity is of interest.

IT **146663-72-1** **146663-73-2** **146663-74-3**

RL: PROC (Process)

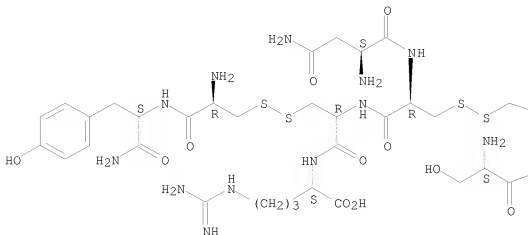
(isolation of, during oxidation and preparation of native toxin)

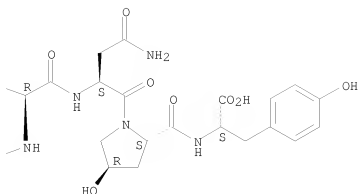
RN 146663-72-1 HCAPLUS

CN L-Tyrosine, L-seryl-L-cysteinyl-L-asparaginyl-trans-4-hydroxy-L-prolyl-, (2 \rightarrow 2')-disulfide with L-asparaginyl-L-cysteinyl-L-cysteinyl-L-arginine (3'-1'')-disulfide with L-cysteinyl-L-tyrosinamide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

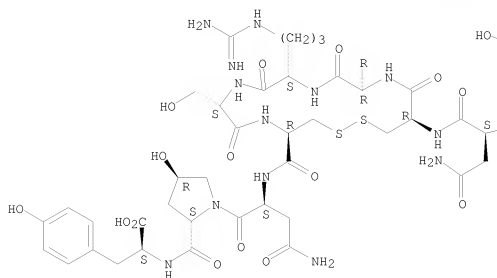
PAGE 1-A



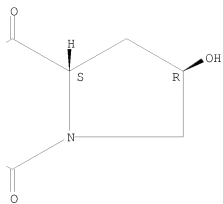


RN 146663-73-2 HCAPLUS
 CN ω -Conotoxin G VIA (reduced), [seco-22/23]-
 23-de-L-threonine-24-de-L-lysine-25-de-L-arginine-, cyclic
 (1-8), (15-19)-bis(disulfide), (16-26)-disulfide (9CI)
 (CA INDEX NAME)

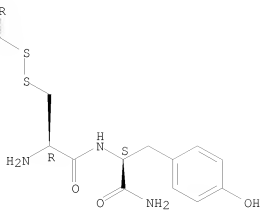
Absolute stereochemistry.



PAGE 1-D



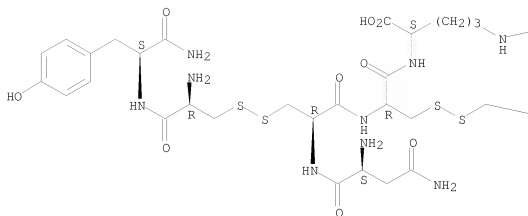
PAGE 2-A



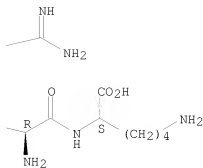
RN 146663-74-3 HCAPLUS
 CN L-Arginine, L-asparaginyl-L-cysteinyl-L-cysteinyl-,
 (2-1')-disulfide with L-cysteinyl-L-tyrosinamide,
 (3-1')-disulfide with L-cysteinyl-L-lysine (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



OS.CITING REF COUNT: 6

THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD
(6 CITINGS)

L13 ANSWER 8 OF 13 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1992:592304 HCAPLUS

DOCUMENT NUMBER: 117:192304

ORIGINAL REFERENCE NO.: 117:33243a,33246a

TITLE: Potent V2/V1a vasopressin antagonists with C-terminal

ethylenediamine-linked retro-amino acids

AUTHOR(S): Manning, Maurice; Przybylski, Jozef; Grzonka, Zbigniew; Nawrocka, Eleonora; Lemmek, Bernard; Misicka, Aleksandra; Cheng, Ling Ling; Chan, W. Y.; Wo, Nga Ching; Sawyer, Wilbur H.

CORPORATE SOURCE: Dep. Biochem. Mol. Biol., Med. Coll. Ohio, Toledo, OH, 43699-0008, USA

SOURCE: Journal of Medicinal Chemistry (1992), 35(21), 3895-904

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal

LANGUAGE: English

GI For diagram(s), see printed CA Issue.

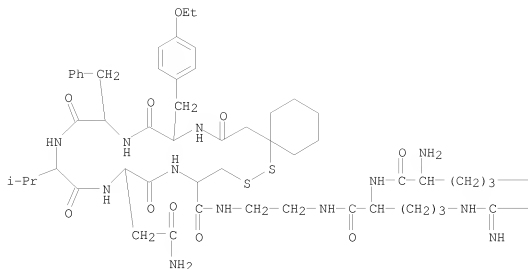
AB The solid-phase synthesis and antagonistic potencies of 25 β -mercapto- β , β -pentamethylenepropionic acid arginine-vasopressin (AVP) analogs I [X = D-Tyr(Et), D-Phe, D-Ile, D-Leu; X1 = Val, Ile; X2 = bond, Pro, Pro-Arg, Pro-Arg-Gly, Arg-Gly; R = H, H-Arg, H-D-Arg, H-Gly, H-Orn, H-D-Orn, H-D-Lys, H-Arg-Arg, H-Val, H-D-Val] are reported. All 25 peptides were examined for agonistic and antagonistic potencies in AVP antidiuretic (V2) and vasopressor (V1a) receptor assays. With the exception of peptides I (X = D-Ile, D-Leu, X1 = Val, X2 = bond, R = H-Arg), all I exhibit potent anti-V1a antagonism, with anti-V1a pA2 values in the range 7.64-8.33. Comparison of the anti-V2 potencies of peptides I [X = D-Tyr(Et), Tyr(Et), D-Phe, D-Ile, D-Leu, X1 = Val, X2 = bond, R = H, H-Arg] clearly shows the superiority of the D-Tyr(Et)2 substitution in leading to retention and enhancement of V2 antagonism in this series. With only one exception, the retro modified peptides I exhibit either full retention and in a number of cases a 1.5-7.5-fold enhancement of V2 antagonism compared to their resp. parent C-terminal ethylenediamine peptides I (R = H). Peptide I [X = D-Tyr(Et), X1 = Ile, X2 = Pro-Arg, R = H-Arg] exhibits a 2-fold enhancement of anti-V32 potency relative to its Val4 counterpart I (X, X2, R = same, X1 = Val). The retro modified peptides I [X = D-Tyr(Et), X1 = Ile, X2 = Pro-Arg-Gly, R = H-Val, H-D-Val], which possess extensions at the C-terminal, also exhibit good retention of V2 antagonism. Many of these retro substituted peptides are as potent as the most potent V2 antagonists reported to date. Some of these may be orally active. These findings point to the usefulness of ethylenediamine retro modifications in the design of AVP antagonists. Furthermore, they provide useful clues to the design of more potent and selective AVP antagonists and novel photoaffinity and radioiodinated ligands as probes of AVP receptors.

IT 143346-52-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and antidiuretic and antivasopressor activities of)

RN 143346-52-5 HCAPLUS

CN L-Cysteinamide, O-ethyl-N-[(1-mercaptopcyclohexyl)acetyl]-D-tyrosyl-L-phenylalanyl-L-valyl-L-asparaginyl-N-[2-[(N2-L-arginyl-L-arginyl)amino]ethyl]-, cyclic (1-5)-disulfide (9CI) (CA INDEX NAME)

IT **143346-75-2P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation, deblocking, and disulfide cyclization of)

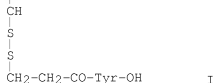
RN 143346-75-2 HCAPLUS

CN L-Cysteinamide, O-ethyl-N-[[1-[(phenylmethyl)thio]cyclohexyl]acetyl]-D-tyrosyl-L-phenylalanyl-L-valyl-L-asparaginyl-N-[2-[[N5-[imino[[4-methylphenyl)sulfonyl]amino]methyl]-N2-[N5-[imino[[4-methylphenyl)sulfonyl]amino]methyl]-N2-[(phenylmethoxy)carbonyl]-L-ornithyl]-L-ornithyl]amino]ethyl]-S-(phenylmethyl)- (9CI) (CA INDEX NAME)

L13 ANSWER 9 OF 13 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 1991:450306 HCAPLUS
 DOCUMENT NUMBER: 115:50306
 ORIGINAL REFERENCE NO.: 115:8765a,8768a
 TITLE: Preparation of a new vasopressin analog as a memory enhancer
 INVENTOR(S): Barth, Tomislav; Hrbas, Pavel; Klüh, Ivan; Skopkova, Jana; Krojídlo, Milan
 PATENT ASSIGNEE(S): Czech.
 SOURCE: Czech., 6 pp.
 CODEN: CZXXA9
 DOCUMENT TYPE: Patent
 LANGUAGE: Czech
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	---	-----	-----	-----
CS 268463	B1	19900314	CS 1988-4752	19880701
PRIORITY APPLN. INFO.: GI			CS 1988-4752	19880701

H-Phe-Gln-Asn-NH-CH-CO-Pro-D-Arg-Gly-NH₂



CH₂-CH₂-CO-Tyr-Phe-Gln-Asn-Cys-Pro-D-Arg-Gly-NH₂

S II

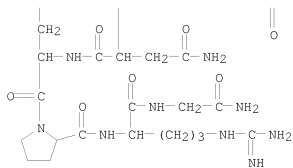
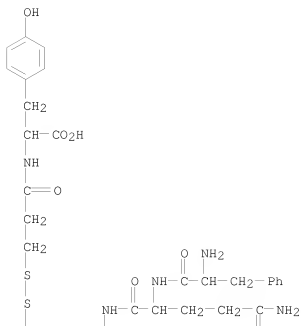
AB A new vasopressin analog (I) is prepared by treating (8-D-arginine)deaminovasopressin (II) by chymotrypsin. A mixture of II and chymotrypsin in 0.02M Na phosphate buffer pH 7.2 was incubated 4 h at 37°, the reaction terminated by acidifying to pH 3, the product was freeze-dried, redissolved in 2 mL H₂O, and the residual II removed from I by HPLC. In a passive avoidance test in mice, 5 g I/kg s.c. gave retention times after 1 and 2 wk of 165 and 133 s, resp. vs. 125 and 78 s, resp. for II.

IT **134870-53-4P**

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as memory enhancer)

RN 134870-53-4 HCAPLUS

CN Vasopressin, [seco-2/3]- 1-(3-mercaptopropanoic acid)-8-D-arginine- (9CI)
 (CA INDEX NAME)



L13 ANSWER 10 OF 13 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 1991:401690 HCAPLUS
 DOCUMENT NUMBER: 115:1690
 ORIGINAL REFERENCE NO.: 115:351a,354a
 TITLE: Acyclic 'seco-analogs' of atrial natriuretic peptides
 have biological activity in vitro: structure-activity
 relationships
 AUTHOR(S): Bovy, P. R.; O'Neal, J. M.; Olins, G. M.; Patton, D.
 R.; McMahon, E. G.; Palomo, M. A.; Toren, P.;
 Kolodziej, E. W.
 CORPORATE SOURCE: G. D. Searle and Co., St. Louis, MO, 63198, USA
 SOURCE: Pept.: Chem., Struct. Biol., Proc. Am. Pept. Symp.,
 11th (1990), Meeting Date 1989, 254-7. Editor(s):
 Rivier, Jean E.; Marshall, Garland R. ESCOM Sci.
 Pub.: Leiden, Neth.
 CODEN: 56XIA7
 DOCUMENT TYPE: Conference
 LANGUAGE: English
 GI

Cys-Phe-OH

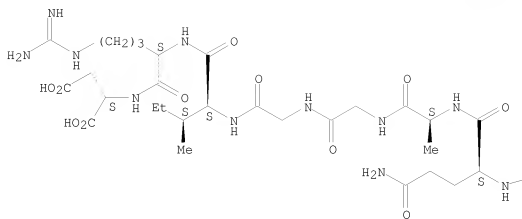
H-Arg-Phe-Ser-Asn-Cys-Gly-Leu-Gly-Ser-

Gln-Ala-Gly-Gly-Ile-Arg-Asp-OH I

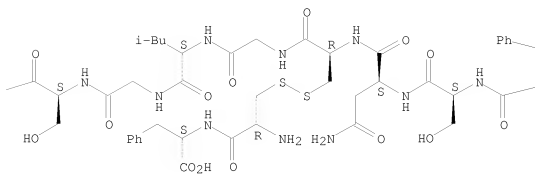
- AB A symposium report on the relative vasorelaxant activity (rabbit aorta)
 and relative binding affinities (rabbit lung membranes) of atrial
 natriuretic peptide (ANP) acyclic seco analogs, e.g. I. The data confirm
 the important role of Leu17 and Arg109 and/or Ile110 in recognition of
 the cyclase-coupled AnP receptor and indicate that the cyclic structure of
 ANP participates to stabilize the receptor-hormone complex.
- IT **134302-70-8**
 RL: BIOL (Biological study)
 (vasorelaxant and receptor-binding activities of)
- RN 134302-70-8 HCAPLUS
- CN L-Aspartic acid, L-arginyl-L-phenylalanyl-L-seryl-L-asparaginy-L-
 cysteinylglycyl-L-leucylglycyl-L-seryl-L-glutaminy-L-alanylglycylglycyl-L-
 isoleucyl-L-arginyl-, (5-1')-disulfide with
 L-cysteinyl-L-phenylalanine (9CI) (CA INDEX NAME)

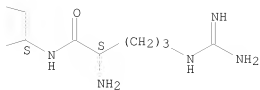
Absolute stereochemistry.

PAGE 1-A



PAGE 1-B





L13 ANSWER 11 OF 13 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1986:15082 HCAPLUS

DOCUMENT NUMBER: 104:15082

ORIGINAL REFERENCE NO.: 104:2469a,2472a

TITLE: Pressinoic acid, its substituted amino acid derivatives and homologs of the D configuration, N- and C-terminal substituted derivatives and their therapeutic, biological and immunological uses
 Chauveau, Jacques; Delaage, Michel

INVENTOR(S):

PATENT ASSIGNEE(S): Immunotech S. A., Fr.

SOURCE: Fr. Demande, 8 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2554347	A1	19850510	FR 1983-17768	19831107
FR 2554347	B1	19861003		

PRIORITY APPLN. INFO.: FR 1983-17768 19831107

AB The antidiuretic effect of pressinoic acid [35748-51-7] is examined. Thus, pressinoic acid, when injected into a rabbit or rat at a dosage of 0.1 ng/kg, produced a slowing down of diuresis. The effect reached a maximum at 1.0 ng/kg and, at 50 ng/kg, pressinoic acid exhibited a slight pressor effect but no toxicity.

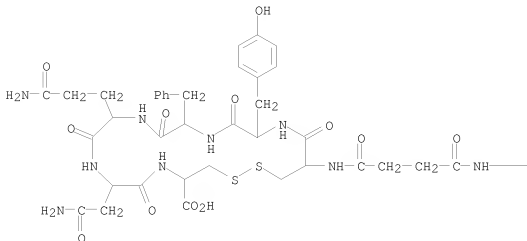
IT **99540-99-5**

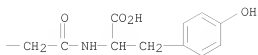
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
 (antidiuretic activity of)

RN 99540-99-5 HCAPLUS

CN L-Cysteine, N-(3-carboxy-1-oxopropyl)-L-cysteinyl-L-tyrosyl-L-phenylalanyl-L-glutamyl-L-asparaginyl-, cyclic (1-6)-disulfide,
 (1-1')-amide with glycyl-L-tyrosine (9CI) (CA INDEX NAME)

PAGE 1-A





REFERENCE COUNT:

3

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 12 OF 13 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1985:185471 HCAPLUS

DOCUMENT NUMBER: 102:185471

ORIGINAL REFERENCE NO.: 102:29117a,29120a

TITLE: Total synthesis of urogastrone (human epidermal growth factor, h-EGF)

AUTHOR(S): Hagiwara, Daijiro; Neya, Masahiro; Miyazaki, Yoshio; Hemmi, Keiji; Hashimoto, Masashi

CORPORATE SOURCE: Explor. Res. Lab., Fujisawa Pharm. Co., Ltd., Osaka, 532, Japan

SOURCE: Journal of the Chemical Society, Chemical Communications (1984), (24), 1676-8

CODEN: JCCCCAT; ISSN: 0022-4936

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Urogastrone was prepared from 10 peptides by the segment condensation method in solution using the maximum protection strategy.

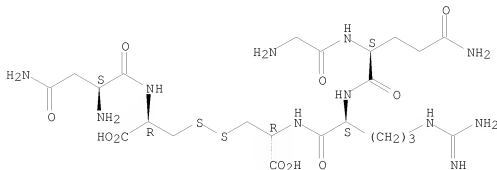
IT 96238-66-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

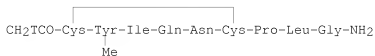
RN 96238-66-3 HCAPLUS

CN L-Cysteine, glycyl-L-glutamyl-L-arginyl-, (4-2')-disulfide with
L-asparaginyl-L-cysteine (9CI) (CA INDEX NAME)

Absolute stereochemistry.

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

L13 ANSWER 13 OF 13 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 1980:42370 HCAPLUS
 DOCUMENT NUMBER: 92:42370
 ORIGINAL REFERENCE NO.: 92:7085a
 TITLE: The preparation and metabolic fate of tritiated
 Na-acetyl[2-O-methyltyrosine]oxytocin, an
 inhibitor of the uterotonic action of oxytocin
 Bojanovska, Vera; Barth, Tomislav; Cerny, Bohuslav;
 Hauzer, Karel; Jost, Karel
 AUTHOR(S): Inst. Org. Chem. Biochem., Czech. Acad. Sci., Prague,
 166 10/6, Czech.
 CORPORATE SOURCE: Collection of Czechoslovak Chemical Communications
 SOURCE: (1979), 44(9), 2702-9
 CODEN: CCCCAC; ISSN: 0366-547X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI

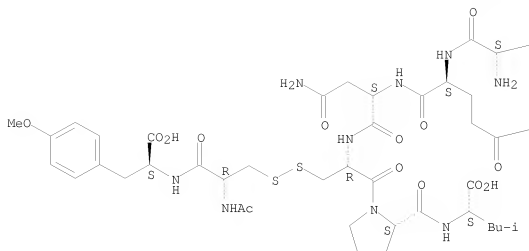


I

- AB The title compound (I) (sp. activity 3-7 Ci/mmol) was prepared by acylating [Tyr(Me)₂]-oxytocin with (CH₂TCO)₂O. I was stable in human pregnancy serum. Chymotrypsin cleaved I at the Tyr(Me)-Ile and Leu-Gly peptide bonds. The incubation of I with subcellular fractions of rat uterine homogenates gave fragments which appeared to be identical with the products from the chymotryptic cleavage.
- IT **72289-64-6P** **72302-84-2P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, by cleavage of oxytocin derivative with chymotrypsin)
- RN 72289-64-6 HCAPLUS
- CN L-Leucine, L-isoleucyl-L-glutamyl-L-asparagyl-L-cysteinyl-L-prolyl-, (4→1')-disulfide with N-acetyl-L-cysteinyl-O-methyl-L-tyrosine (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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PAGE 1-B

—NH₂

RN 72302-84-2 HCAPLUS

CN Glycinamide, L-isoleucyl-L-glutamyl-L-asparaginyl-L-cysteinyl-L-prolyl-L-leucyl-, (4+1')-disulfide with
N-acetyl-L-cysteinylo-methyl-L-tyrosine (9CI) (CA INDEX NAME)

Absolute stereochemistry.

09/646,950

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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-11.05	-22.95

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L13 13 SEA FILE=HCAPLUS ABB=ON PLU=ON L12

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L2 15 SEA ABB=ON PLU=ON L1 AND SQL<=10

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D L5 IBIB ABS HITSTR 1-3

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L13 13 SEA ABB=ON PLU=ON L12

D L13 IBIB ABS HITSTR 1-13

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FILE HOME

FILE REGISTRY

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STRUCTURE FILE UPDATES: 15 MAR 2010 HIGHEST RN 1210111-73-1
DICTIONARY FILE UPDATES: 15 MAR 2010 HIGHEST RN 1210111-73-1

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FILE HCAPLUS

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FILE COVERS 1907 - 16 Mar 2010 VOL 152 ISS 12
FILE LAST UPDATED: 15 Mar 2010 (20100315/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2009

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the first quarter of 2010.

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FILE STNGUIDE

FILE CONTAINS CURRENT INFORMATION.
 LAST RELOADED: Mar 12, 2010 (20100312/UP).

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CA SUBSCRIBER PRICE          0.00      -22.95
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STRUCTURE FILE UPDATES: 15 MAR 2010 HIGHEST RN 1210111-73-1
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 conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
 predicted properties as well as tags indicating availability of
 experimental property data in the original document. For information
 on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

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CA SUBSCRIBER PRICE          0.00      -22.95
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FILE LAST UPDATED: 15 Mar 2010 (20100315/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2009

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=> L15

L16 5 L15

=> D L16 IBIB ABS HITSTR 1-5

L16 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2009:1101939 HCAPLUS
 DOCUMENT NUMBER: 151:334264
 TITLE: Nucleic acid and corresponding protein designated
 161P2F10B useful in treatment and detection of cancer
 INVENTOR(S): Challita-Eid, Pia M.; Raitano, Arthur B.; Faris, Mary;
 Hubert, Rene S.; Morrison, Karen Jane Meyrick;
 Jakobovits, Aya
 PATENT ASSIGNEE(S): Agensys, Inc., USA
 SOURCE: U.S., 234pp., Cont.-in-part of U.S. Ser. No. 121,024.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 34
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 7585505	B2	20090908	US 2005-97864	20050401
US 20050265924	A1	20051201		
EP 1854809	A1	20071114	EP 2007-101693	20010822
R: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE, TR				
US 20030191073	A1	20031009	US 2001-5480	20011107
US 20030165505	A1	20030904	US 2002-62109	20020131
US 7067130	B2	20060627		
CA 2479049	A1	20031016	CA 2002-2479049	20020401
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WO 2003085081	A2	20031016	WO 2002-US10132	20020401
WO 2003085081	A3	20050526		
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AU 2002258688	B2	20080814		
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AU 2002258689	B2	20070816		
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US 20060002993	A1	20060105	US 2004-859643		20040602
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US 20050214211	A1	20050929	US 2005-73349		20050303
US 20070048283	A1	20070301	US 2005-154298		20050615
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US 7592149	B2	20090922			
US 20080280822	A1	20081113	US 2006-442031		20060526
US 7642342	B2	20100105			
US 20070212299	A1	20070913	US 2007-655822		20070119
US 7667018	B2	20100223			
US 20080233598	A1	20080925	US 2007-704092		20070206
AU 2007201354	A1	20070419	AU 2007-201354		20070326
JP 2007254490	A	20071004	JP 2007-168300		20070626
JP 4177877	B2	20081105			
US 20090264381	A1	20091022	US 2007-833918		20070803
US 7667015	B2	20100223			
AU 2007237282	A1	20071220	AU 2007-237282		20071130
JP 2008188015	A	20080821	JP 2008-43368		20080225
JP 4299872	B2	20090722			
AU 2008246215	A1	20081204	AU 2008-246215		20081114
US 20090148854	A1	20090611	US 2009-357154		20090121
PRIORITY APPLN. INFO.:			US 2001-282739P	P	20010410
			US 2001-283112P	P	20010410
			US 2001-286630P	P	20010425
			US 2001-5480	B1	20011107
			US 2002-62109	A1	20020131
			US 2002-121024	A2	20020410
			US 2000-227098P	P	20000822
			US 2001-300373P	P	20010622
			EP 2001-964345	A3	20010822
			US 2001-935430	A1	20010822
			AU 2002-258688	A3	20020401
			WO 2002-US10132	W	20020401
			WO 2002-US10220	W	20020401
			AU 2002-305169	A3	20020409
			EP 2002-762038	A3	20020409
			US 2002-120835	A3	20020409
			US 2002-120885	B1	20020409
			US 2002-120901	A1	20020409
			US 2002-120907	B3	20020409
			AU 2002-361610	A3	20021107

JP 2003-542587	A3	20021107
US 2002-291241	A3	20021107
US 2005-73349	B1	20050303
US 2006-368284	A1	20060302
JP 2007-168300	A3	20070626

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB A gene (designated 161P2F10B) and its encoded protein are described wherein 161P2F10B exhibits tissue specific expression in normal adult tissue, it is aberrantly expressed in the cancers of the breast, colon, kidney, lung, ovary, pancreas, and prostate. Consequently, 161P2F10B provides a diagnostic, prognostic, prophylactic, and/or therapeutic target for cancer. The 161P2F10B gene or fragment thereof, or its encoded protein or a fragment thereof, can be used to elicit a humoral or cellular immune response.

IT	525539-81-5	525540-99-2	525542-96-5
	528836-14-8		

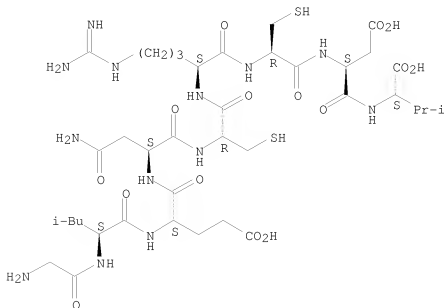
RL: PRP (Properties)

(unclaimed sequence; nucleic acid and corresponding protein designated 161P2F10B useful in treatment and detection of cancer)

RN	525539-81-5	HCAPLUS
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CN L-Valine, glycyl-L-leucyl-L- α -glutamyl-L-asparaginyl-L-cysteinyl-L-
arginyl-L-cysteinyl-L- α -aspartyl- (CA INDEX NAME)

Absolute stereochemistry.

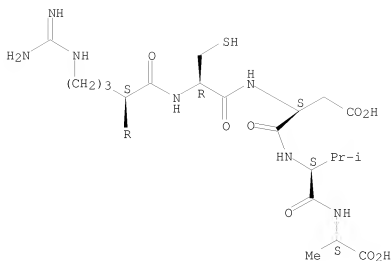


RN 525540-99-2 HCAPLUS

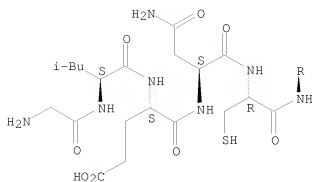
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arginyl-L-cysteinyl-L- α -aspartyl-L-valyl- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



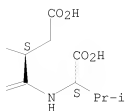
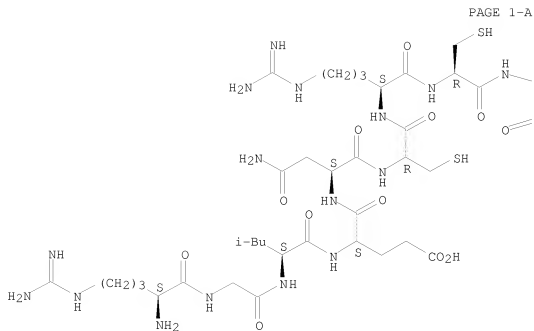
PAGE 2-A



RN 525542-96-5 HCAPLUS

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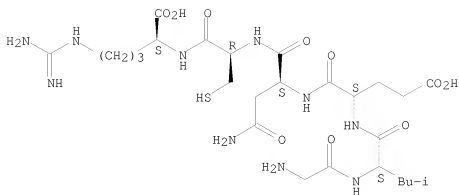
Absolute stereochemistry.



RN 528836-14-8 HCAPLUS

CN L-Arginine, glycyl-L-leucyl-L- α -glutamyl-L-asparaginyl-L-cysteinyl-
(CA INDEX NAME)

Absolute stereochemistry.



OS.CITING REF COUNT:	3	THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (15 CITINGS)
REFERENCE COUNT:	71	THERE ARE 71 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2008:853968 HCAPLUS
 DOCUMENT NUMBER: 149:167940
 TITLE: Peptide modulators of angiogenesis and their use for treatment of cancer
 INVENTOR(S): Popel, Aleksander S.
 PATENT ASSIGNEE(S): The Johns Hopkins University, USA
 SOURCE: PCT Int. Appl., 169pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008085828	A2	20080717	WO 2008-US36	20080103
WO 2008085828	A3	20081120		

W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

PRIORITY APPLN. INFO.: US 2007-878579P P 20070103

AB Peptides containing a TSP, CXC, collagen, somatotropin, or serpin motif as well as adnln. peptides derived from placental lactogen, caspase 10, etc., are disclosed. These peptides may be used to inhibit blood vessel formation, e.g., in treatment of tumors. Thus, a systematic computational methodol. based on bioinformatics was used to identify novel peptide modulators of angiogenesis that were characterized in vitro and/or in vivo.

IT 1039155-66-2

RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (peptide modulators of angiogenesis and their use for treatment of cancer)

RN 1039155-66-2 HCAPLUS

CN L-Leucine, glycyl-L-leucyl-L- α -glutamyl-L-asparaginyl-L-cysteinyl- (CA INDEX NAME)

Absolute stereochemistry.

L16 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2008:411968 HCAPLUS

DOCUMENT NUMBER: 148:447879

TITLE: Polynucleotide vaccines encoding CTL and/or HTL epitopes for inducing cellular immune responses against influenza virus infection

INVENTOR(S): Alexander, Jeffery L.; Southwood, Scott F.; Bilsel, Pamuk A.; Newman, Mark J.

PATENT ASSIGNEE(S): Pharmexa Inc., USA

SOURCE: PCT Int. Appl., 313 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008039267	A2	20080403	WO 2007-US16529	20070723
WO 2008039267	A3	20081231		
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AU 2007300663	A1	20080403	AU 2007-300663	20070723
CA 2658559	A1	20080403	CA 2007-2658559	20070723
EP 2069376	A2	20090617	EP 2007-861332	20070723
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS			
PRIORITY APPLN. INFO.:			US 2006-832112P	P 20060721
			WO 2007-US16529	W 20070723

OTHER SOURCE(S): MARPAT 148:447879

AB This invention uses our knowledge of the mechanisms by which antigen is recognized by T cells to identify and prepare influenza virus epitopes, and to develop epitope-based vaccines directed towards influenza virus. These epitopes are cytotoxic T lymphocyte epitopes, helper T lymphocyte epitopes and B cell epitopes derived from influenza virus hemagglutinin, neuraminidase, nucleoprotein, RNA polymerase subunit PA, RNA polymerase basic protein 1, RNA polymerase basic protein 2, nonstructural gene 1, nonstructural gene 2, matrix protein 1 or matrix protein 2. More specifically, this application communicates our discovery of pharmaceutical comps. and methods of use in the prevention and treatment of influenza virus infection.

IT 1017870-02-8

RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (polynucleotide vaccines encoding CTL and/or HTL epitopes for inducing cellular immune responses against influenza virus infection)

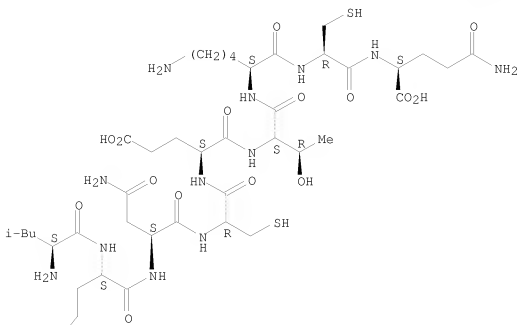
09/646,950

RN 1017870-02-8 HCAPLUS

CN L-Glutamine, L-leucyl-L- α -glutamyl-L-asparaginyl-L-cysteinyl-L- α -glutamyl-L-threonyl-L-lysyl-L-cysteinyl- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A

HO₂C

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

L16 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2003:377029 HCAPLUS

DOCUMENT NUMBER: 138:400512

TITLE: Nucleic acid and corresponding protein designated
161P2F10B useful in treatment and detection of cancerINVENTOR(S): Jakobovits, Aya; Raitano, Arthur B.; Faris, Mary;
Hubert, Rene S.; Ge, Wangmao; Morrison, Karen Jane
Meyrick; Morrison, Robert Kendall; Challita-Eid, Pia
M.

PATENT ASSIGNEE(S): Agensys, Inc., USA

SOURCE: PCT Int. Appl., 269 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 34

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003040340	A2	20030515	WO 2002-US36002	20021107
WO 2003040340	A9	20030807		
WO 2003040340	A3	20050414		
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US 20030191073	A1	20031009	US 2001-5480	20011107
US 20030165505	A1	20030904	US 2002-62109	20020131
US 7067130	B2	20060627		
CA 2479049	A1	20031016	CA 2002-2479049	20020401
CA 2480811	A1	20031016	CA 2002-2480811	20020401
WO 2003085081	A2	20031016	WO 2002-US10132	20020401
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WO 2003085121	A2	20031016	WO 2002-US10220	20020401
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AU 2002258689	B2	20070816	
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AU 2002361610	A1	20030519	AU 2002-361610 20021107
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EP 1537140	A2	20050608	EP 2002-797088 20021107
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JP 4200100	B2	20081224	
US 20060002993	A1	20060105	US 2004-859643 20040602
US 7279556	B2	20071009	
US 20070004913	A1	20070104	US 2004-860769 20040602
US 7405290	B2	20080729	
US 20050265921	A1	20051201	US 2005-97912 20050401
US 7655234	B2	20100202	
US 20070212299	A1	20070913	US 2007-655822 20070119
US 7667018	B2	20100223	
AU 2007201354	A1	20070419	AU 2007-201354 20070326
JP 2007254490	A	20071004	JP 2007-168300 20070626
JP 4177877	B2	20081105	
AU 2007237282	A1	20071220	AU 2007-237282 20071130
JP 2008188015	A	20080821	JP 2008-43368 20080225
JP 4299872	B2	20090722	
AU 2008246215	A1	20081204	AU 2008-246215 20081114
PRIORITY APPLN. INFO.:			US 2001-5480 A 20011107
			US 2002-62109 A 20020131
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			WO 2002-US10132 W 20020401
			WO 2002-US10220 W 20020401
			AU 2002-305169 A3 20020409
			AU 2002-361610 A3 20021107
			JP 2003-542587 A3 20021107
			US 2002-291241 A3 20021107
			WO 2002-US36002 W 20021107
			JP 2007-168300 A3 20070626

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB A novel gene 161P2F10B (also designated 161P2F10B) and its encoded protein, and variants thereof, are described wherein 161P2F10B exhibits tissue-specific expression in normal adult tissue, and is aberrantly over-expressed in several cancers. Consequently, 161P2F10B provides a diagnostic, prognostic, prophylactic and/or therapeutic target for cancer. The 161P2F10B gene is 100% identical to a previously cloned and sequenced gene, namely ectonucleotide pyrophosphatase/phosphodiesterase 3, also known as phosphodiesterase-10, gp130RB13-6, E-NNP3 (ENPP3), PDNPP3,

and DC203c. The 161P2F10B gene of fragment thereof, or its encoded protein, or variants thereof, or a fragment thereof, can be used to elicit a humoral or cellular immune response; antibodies or T cells reactive with 161P2F10B can be used in active or passive immunization.

IT 525539-81-5 525540-99-2 525542-96-5
525544-34-7 525548-96-3 525550-81-6

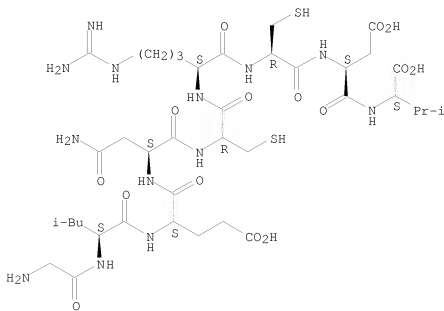
RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(epitope peptide; nucleic acid and corresponding protein designated 161P2F10B useful in treatment and detection of cancer)

RN 525539-81-5 HCAPLUS

CN L-Valine, glycyl-L-leucyl-L- α -glutamyl-L-asparaginyl-L-cysteinyl-L-arginyl-L-cysteinyl-L- α -aspartyl- (CA INDEX NAME)

Absolute stereochemistry.

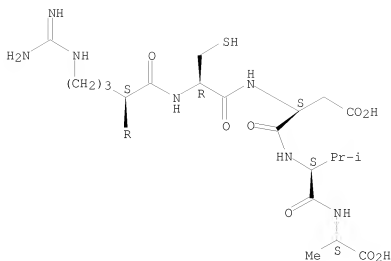


RN 525540-99-2 HCAPLUS

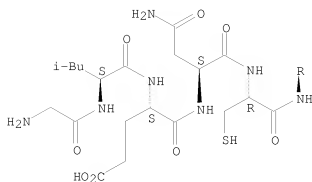
CN L-Alanine, glycyl-L-leucyl-L- α -glutamyl-L-asparaginyl-L-cysteinyl-L-arginyl-L-cysteinyl-L- α -aspartyl-L-valyl- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A

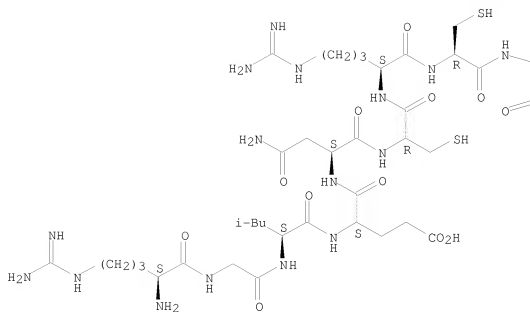


RN 525542-96-5 HCAPLUS

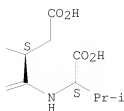
CN L-Valine, L-arginylglycyl-L-leucyl-L- α -glutamyl-L-asparaginyl-L-cysteinyl-L-arginyl-L-cysteinyl-L- α -aspartyl- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

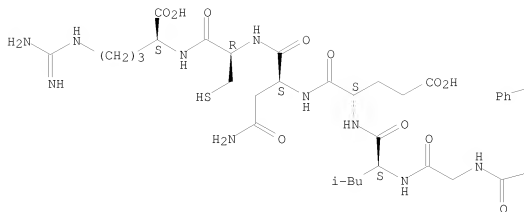


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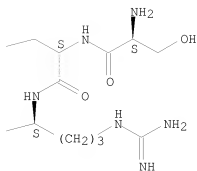
CN L-Arginine, L-seryl-L-phenylalanyl-L-arginylglycyl-L-leucyl-L- α -glutamyl-L-asparaginyl-L-cysteinyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

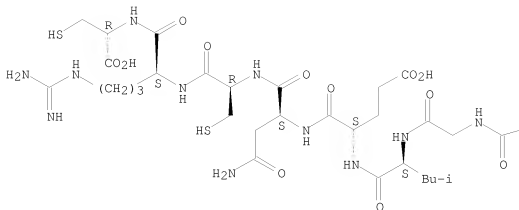


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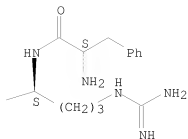
CN L-Cysteine, L-phenylalanyl-L-arginylglycyl-L-leucyl-L-α-glutamyl-L-asparaginyl-L-cysteiny-L-arginyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

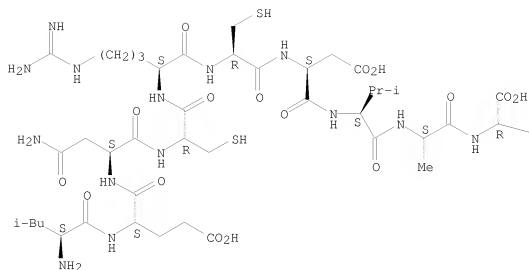


RN 525550-81-6 HCAPLUS

CN L-Cysteine, L-leucyl-L- α -glutamyl-L-asparaginyl-L-cysteinyl-L-
 arginyl-L-cysteinyl-L- α -aspartyl-L-valyl-L-alanyl- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

IT **528836-14-8**

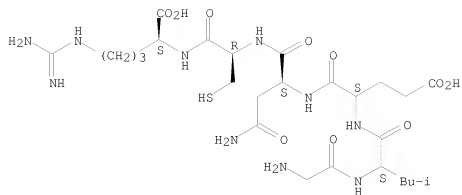
RL: PRP (Properties)

(unclaimed sequence; nucleic acid and corresponding protein designated 161P2F10B useful in treatment and detection of cancer)

RN 528836-14-8 HCAPLUS

CN L-Arginine, glycyl-L-leucyl-L-α-glutamyl-L-asparaginyl-L-cysteinyl-
(CA INDEX NAME)

Absolute stereochemistry.



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
(4 CITINGS)

L16 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2001:923846 HCAPLUS
 DOCUMENT NUMBER: 136:65232
 TITLE: 55P4H4 protein and gene expressed in various human cancers
 INVENTOR(S): Faris, Mary; Hubert, Rene S.; Afar, Daniel E. H.; Levin, Elana; Mitchell, Steven Chappell; Raitano, Arthur B.; Jakobovits, Aya
 PATENT ASSIGNEE(S): Urogenesys, Inc., USA
 SOURCE: PCT Int. Appl., 160 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001096391	A2	20011220	WO 2001-US19246	20010613
WO 2001096391	A3	20021205		
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EP 1294875	A2	20030326	EP 2001-946410	20010613
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US 20030064418	A1	20030403	US 2001-881636	20010613
PRIORITY APPLN. INFO.:			US 2000-211454P	P 20000613
			WO 2001-US19246	W 20010613

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB A novel human gene (designated 55P4H4) and its encoded protein are described. Protein 55P4H4 shows sequence homologies to human hypoxia-regulated gene products, murine RIK, Drosophila CHARBYE, and yeast RIC1 proteins. While 55P4H4 exhibits tissue-restricted expression in normal adult tissue, it is aberrantly expressed in multiple cancers including prostate, bladder, kidney, lung, testis, bone, cervical, brain, and ovarian cancers. The gene is mapped to human chromosome 4q22.3-24, a region known to be associated with a variety of chromosomal abnormalities in a number of different cancers. Consequently, 55P4H4 provides a diagnostic and/or therapeutic target for cancers, and the 55P4H4 gene or fragment thereof, or its encoded protein or a fragment thereof used to elicit an immune response.

IT 382602-56-4 382602-59-7 382602-95-1
 382603-33-0 382603-79-4 382603-90-9
 382603-94-3 382604-28-6 383126-20-3

RL: PRP (Properties)

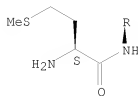
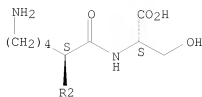
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RN 382602-56-4 HCAPLUS

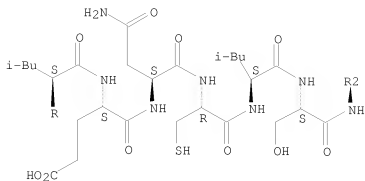
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Absolute stereochemistry.

PAGE 1-A



PAGE 2-A

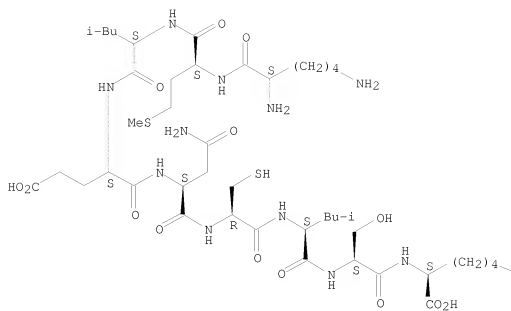


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Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

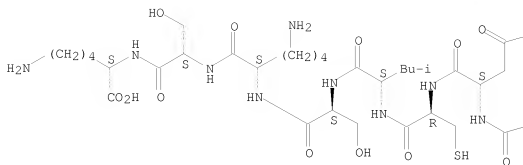


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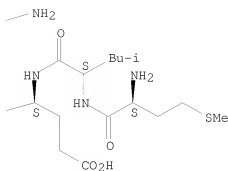
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Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

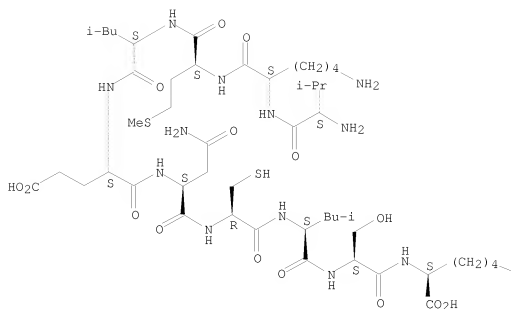


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Absolute stereochemistry.

PAGE 1-A



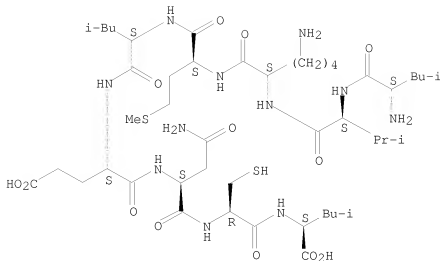
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RN 382603-79-4 HCAPLUS

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Absolute stereochemistry.

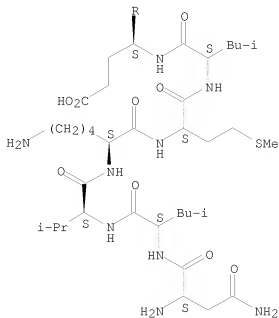


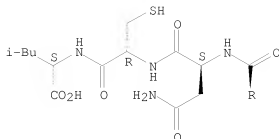
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Absolute stereochemistry.

PAGE 1-A

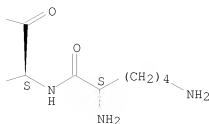
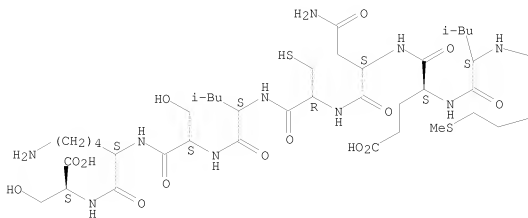




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Absolute stereochemistry.



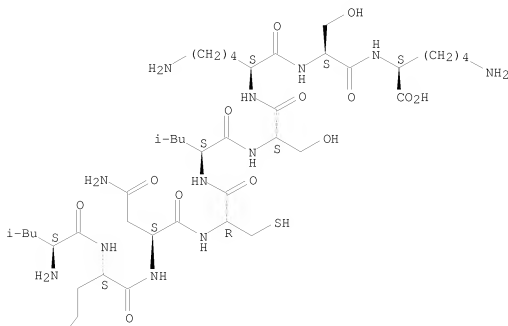
RN 382604-28-6 HCAPLUS

09/646,950

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Absolute stereochemistry.

PAGE 1-A



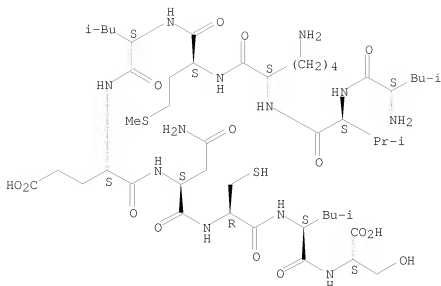
PAGE 2-A



RN 383126-20-3 HCAPLUS

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Absolute stereochemistry.



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> fil reg

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 DICTIONARY FILE UPDATES: 15 MAR 2010 HIGHEST RN 1210111-73-1

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=> FIL HCAP

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FILE LAST UPDATED: 15 Mar 2010 (20100315/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2009

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the first quarter of 2010.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

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L18 6 L17

=> D L18 IBIB ABS HITSTR 1-6

L18 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2009:1101939 HCAPLUS

DOCUMENT NUMBER: 151:334264

TITLE: Nucleic acid and corresponding protein designated 161P2F10B useful in treatment and detection of cancer

INVENTOR(S): Challita-Eid, Pia M.; Raitano, Arthur B.; Faris, Mary; Hubert, Rene S.; Morrison, Karen Jane Meyrick; Jakobovits, Aya

PATENT ASSIGNEE(S): Agensys, Inc., USA

SOURCE: U.S., 234pp., Cont.-in-part of U.S. Ser. No. 121,024.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 34

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 7585505	B2	20090908	US 2005-97864	20050401
US 20050265924	A1	20051201		
EP 1854809	A1	20071114	EP 2007-101693	20010822
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US 20030191073	A1	20031009	US 2001-5480	20011107
US 20030165505	A1	20030904	US 2002-62109	20020131
US 7067130	B2	20060627		
CA 2479049	A1	20031016	CA 2002-2479049	20020401
CA 2480811	A1	20031016	CA 2002-2480811	20020401
WO 2003085081	A2	20031016	WO 2002-US10132	20020401
WO 2003085081	A3	20050526		
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AU 2002258688	B2	20080814		
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EP 1553980	A2	20050720	EP 2002-728645	20020401
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US 20060002993	A1	20060105	US 2004-859643
US 7279556	B2	20071009	
US 20070004913	A1	20070104	US 2004-860769
US 7405290	B2	20080729	
US 20050227253	A1	20051013	US 2004-990137
US 20060018917	A1	20060126	US 2004-989767
US 20050214211	A1	20050929	US 2005-73349
US 20070048283	A1	20070301	US 2005-154298
US 7641905	B2	20100105	
US 20070041968	A1	20070222	US 2005-156231
US 20070048299	A1	20070301	US 2005-155906
US 7628989	B2	20091208	
US 20070054284	A1	20070308	US 2006-368284
US 7592149	B2	20090922	
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US 7642342	B2	20100105	
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US 7667018	B2	20100223	
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JP 4299872	B2	20090722	
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US 20090148854	A1	20090611	US 2009-357154
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JP 2003-542587	A3 20021107
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US 2006-368284	A1 20060302
JP 2007-168300	A3 20070626

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB A gene (designated 161P2F10B) and its encoded protein are described wherein 161P2F10B exhibits tissue specific expression in normal adult tissue, it is aberrantly expressed in the cancers of the breast, colon, kidney, lung, ovary, pancreas, and prostate. Consequently, 161P2F10B provides a diagnostic, prognostic, prophylactic, and/or therapeutic target for cancer. The 161P2F10B gene or fragment thereof, or its encoded protein or a fragment thereof, can be used to elicit a humoral or cellular immune response.

IT **525539-81-5** **525540-99-2** **525542-96-5**
528836-14-8

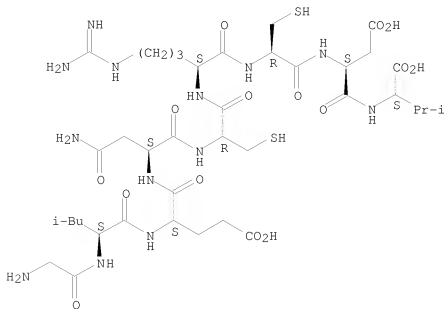
RL: PRP (Properties)

(unclaimed sequence; nucleic acid and corresponding protein designated 161P2F10B useful in treatment and detection of cancer)

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Absolute stereochemistry.

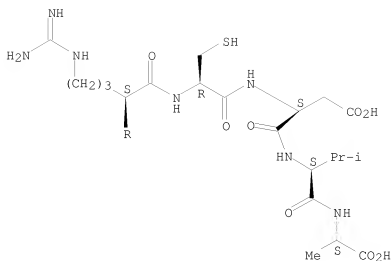


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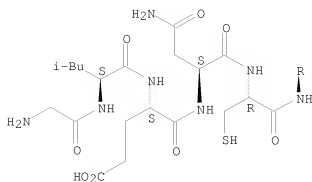
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Absolute stereochemistry.

PAGE 1-A



PAGE 2-A

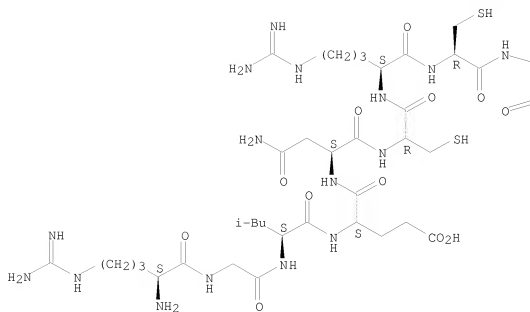


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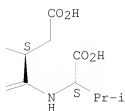
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Absolute stereochemistry.

PAGE 1-A



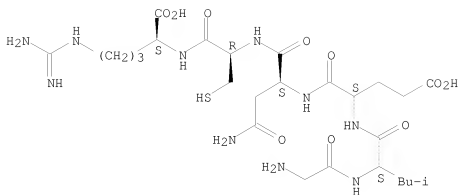
PAGE 1-B



RN 528836-14-8 HCAPLUS

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(CA INDEX NAME)

Absolute stereochemistry.



OS.CITING REF COUNT:	3	THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (15 CITINGS)
REFERENCE COUNT:	71	THERE ARE 71 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2008:853968 HCAPLUS
 DOCUMENT NUMBER: 149:167940
 TITLE: Peptide modulators of angiogenesis and their use for treatment of cancer
 INVENTOR(S): Popel, Aleksander S.
 PATENT ASSIGNEE(S): The Johns Hopkins University, USA
 SOURCE: PCT Int. Appl., 169pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008085828	A2	20080717	WO 2008-US36	20080103
WO 2008085828	A3	20081120		

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PRIORITY APPLN. INFO.: US 2007-878579P P 20070103

AB Peptides containing a TSP, CXC, collagen, somatotropin, or serpin motif as well as adnln. peptides derived from placental lactogen, caspase 10, etc., are disclosed. These peptides may be used to inhibit blood vessel formation, e.g., in treatment of tumors. Thus, a systematic computational methodol. based on bioinformatics was used to identify novel peptide modulators of angiogenesis that were characterized in vitro and/or in vivo.

IT 1039155-66-2

RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (peptide modulators of angiogenesis and their use for treatment of cancer)

RN 1039155-66-2 HCAPLUS

CN L-Leucine, glycyl-L-leucyl-L- α -glutamyl-L-asparaginyl-L-cysteinyl- (CA INDEX NAME)

Absolute stereochemistry.

L18 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2008:411968 HCAPLUS

DOCUMENT NUMBER: 148:447879

TITLE: Polynucleotide vaccines encoding CTL and/or HTL epitopes for inducing cellular immune responses against influenza virus infection

INVENTOR(S): Alexander, Jeffery L.; Southwood, Scott F.; Bilsel, Pamuk A.; Newman, Mark J.

PATENT ASSIGNEE(S): Pharmexa Inc., USA

SOURCE: PCT Int. Appl., 313 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008039267	A2	20080403	WO 2007-US16529	20070723
WO 2008039267	A3	20081231		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA			
AU 2007300663	A1	20080403	AU 2007-300663	20070723
CA 2658559	A1	20080403	CA 2007-2658559	20070723
EP 2069376	A2	20090617	EP 2007-861332	20070723
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS			
PRIORITY APPLN. INFO.:			US 2006-832112P	P 20060721
			WO 2007-US16529	W 20070723

OTHER SOURCE(S): MARPAT 148:447879

AB This invention uses our knowledge of the mechanisms by which antigen is recognized by T cells to identify and prepare influenza virus epitopes, and to develop epitope-based vaccines directed towards influenza virus. These epitopes are cytotoxic T lymphocyte epitopes, helper T lymphocyte epitopes and B cell epitopes derived from influenza virus hemagglutinin, neuraminidase, nucleoprotein, RNA polymerase subunit PA, RNA polymerase basic protein 1, RNA polymerase basic protein 2, nonstructural gene 1, nonstructural gene 2, matrix protein 1 or matrix protein 2. More specifically, this application communicates our discovery of pharmaceutical comps. and methods of use in the prevention and treatment of influenza virus infection.

IT 1017869-31-6 1017869-33-8 1017870-02-8

RL: BSU (Biological study, unclassified); PRP (Properties); THU

(Therapeutic use); BIOL (Biological study); USES (Uses)

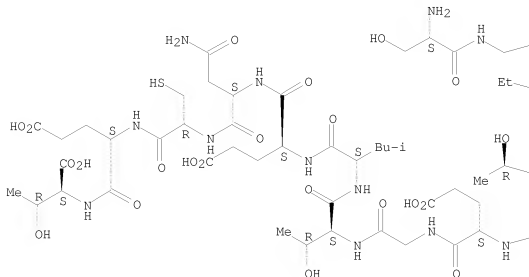
(polynucleotide vaccines encoding CTL and/or HTL epitopes for inducing cellular immune responses against influenza virus infection)

RN 1017869-31-6 HCAPLUS

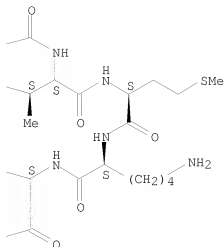
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 α-glutamylglycyl-L-threonyl-L-leucyl-L-α-glutamyl-L-
 asparaginyll-L-cysteinyl-L-α-glutamyl- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



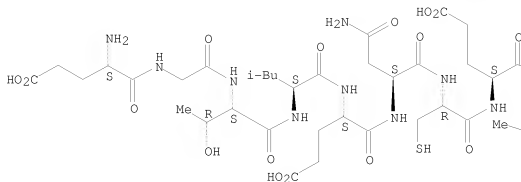
RN 1017869-33-8 HCAPLUS

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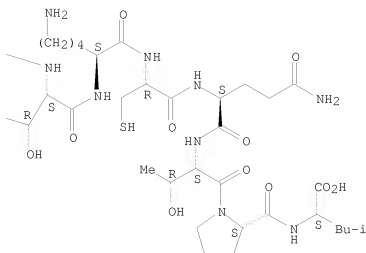
cysteiny-L-glutamyl-L-threonyl-L-prolyl- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

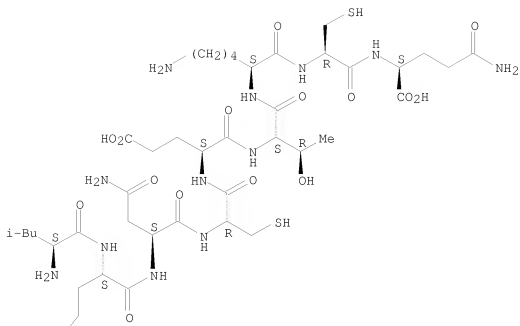


RN 1017870-02-8 HCAPLUS

CN L-Glutamine, L-leucyl-L-α-glutamyl-L-asparaginyl-L-cysteinyl-L-α-glutamyl-L-threonyl-L-lysyl-L-cysteinyl- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

L18 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2003:377029 HCAPLUS

DOCUMENT NUMBER: 138:400512

TITLE: Nucleic acid and corresponding protein designated
161P2F10B useful in treatment and detection of cancer

INVENTOR(S): Jakobovits, Aya; Raitano, Arthur B.; Faris, Mary;
Hubert, Rene S.; Ge, Wangmao; Morrison, Karen Jane
Meyrick; Morrison, Robert Kendall; Challita-Eid, Pia
M.

PATENT ASSIGNEE(S): Agensys, Inc., USA

SOURCE: PCT Int. Appl., 269 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 34

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003040340	A2	20030515	WO 2002-US36002	20021107
WO 2003040340	A9	20030807		
WO 2003040340	A3	20050414		
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US 20030165505	A1	20030904	US 2002-62109	20020131
US 7067130	B2	20060627		
CA 2479049	A1	20031016	CA 2002-2479049	20020401
CA 2480811	A1	20031016	CA 2002-2480811	20020401
WO 2003085081	A2	20031016	WO 2002-US10132	20020401
WO 2003085081	A3	20050526		
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WO 2003085121	A2	20031016	WO 2002-US10220	20020401
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AU 2002258688	A1	20031020	AU 2002-258688 20020401
AU 2002258688	B2	20080814	
AU 2002258689	A1	20031020	AU 2002-258689 20020401
AU 2002258689	B2	20070816	
EP 1553980	A2	20050720	EP 2002-728645 20020401
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AU 2002361610	A1	20030519	AU 2002-361610 20021107
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AU 2002361610	B2	20070111	
EP 1537140	A2	20050608	EP 2002-797088 20021107
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JP 4200100	B2	20081224	
US 20060002993	A1	20060105	US 2004-859643 20040602
US 7279556	B2	20071009	
US 20070004913	A1	20070104	US 2004-860769 20040602
US 7405290	B2	20080729	
US 20050265921	A1	20051201	US 2005-97912 20050401
US 7655234	B2	20100202	
US 20070212299	A1	20070913	US 2007-655822 20070119
US 7667018	B2	20100223	
AU 2007201354	A1	20070419	AU 2007-201354 20070326
JP 2007254490	A	20071004	JP 2007-168300 20070626
JP 4177877	B2	20081105	
AU 2007237282	A1	20071220	AU 2007-237282 20071130
JP 2008188015	A	20080821	JP 2008-43368 20080225
JP 4299872	B2	20090722	
AU 2008246215	A1	20081204	AU 2008-246215 20081114
PRIORITY APPLN. INFO.:			US 2001-5480 A 20011107
			US 2002-62109 A 20020131
			AU 2002-258688 A3 20020401
			WO 2002-US10132 W 20020401
			WO 2002-US10220 W 20020401
			AU 2002-305169 A3 20020409
			AU 2002-361610 A3 20021107
			JP 2003-542587 A3 20021107
			US 2002-291241 A3 20021107
			WO 2002-US36002 W 20021107
			JP 2007-168300 A3 20070626

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB A novel gene 161P2F10B (also designated 161P2F10B) and its encoded protein, and variants thereof, are described wherein 161P2F10B exhibits tissue-specific expression in normal adult tissue, and is aberrantly over-expressed in several cancers. Consequently, 161P2F10B provides a diagnostic, prognostic, prophylactic and/or therapeutic target for cancer. The 161P2F10B gene is 100% identical to a previously cloned and sequenced gene, namely ectonucleotide pyrophosphatase/phosphodiesterase 3, also known as phosphodiesterase-10, gp130RB13-6, E-NNP3 (ENPP3), PDNPP3,

and DC203c. The 161P2F10B gene of fragment thereof, or its encoded protein, or variants thereof, or a fragment thereof, can be used to elicit a humoral or cellular immune response; antibodies or T cells reactive with 161P2F10B can be used in active or passive immunization.

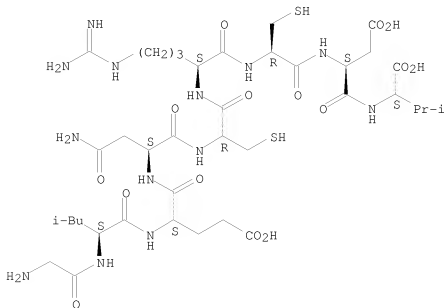
IT 525539-81-5 525540-99-2 525542-96-5
 525544-34-7 525548-96-3 525550-81-6
 525553-84-8 525556-01-8 525556-92-7
 RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(epitope peptide; nucleic acid and corresponding protein designated 161P2F10B useful in treatment and detection of cancer)

RN 525539-81-5 HCAPLUS

CN L-Valine, glycyl-L-leucyl-L- α -glutamyl-L-asparaginyl-L-cysteinyl-L-arginyl-L-cysteinyl-L- α -aspartyl- (CA INDEX NAME)

Absolute stereochemistry.

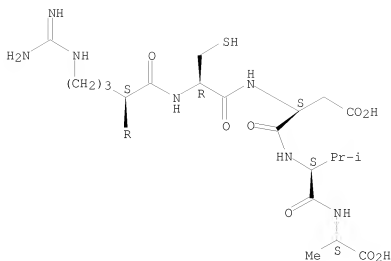


RN 525540-99-2 HCAPLUS

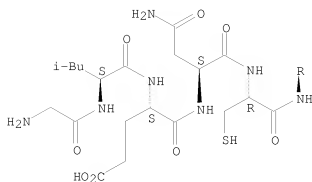
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Absolute stereochemistry.

PAGE 1-A



PAGE 2-A

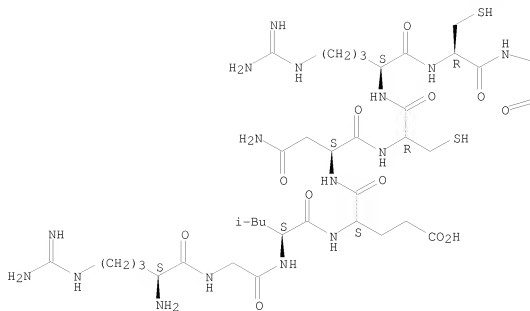


RN 525542-96-5 HCAPLUS

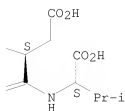
CN L-Valine, L-arginylglycyl-L-leucyl-L- α -glutamyl-L-asparaginyl-L-cysteinyl-L-arginyl-L-cysteinyl-L- α -aspartyl- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

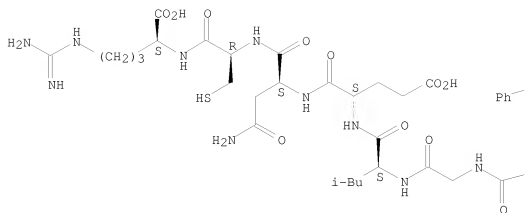


RN 525544-34-7 HCAPLUS

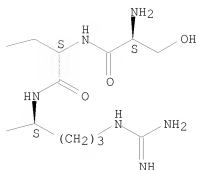
CN L-Arginine, L-seryl-L-phenylalanyl-L-arginylglycyl-L-leucyl-L- α -glutamyl-L-asparaginyl-L-cysteinyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

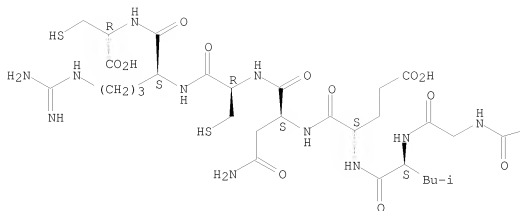


RN 525548-96-3 HCAPLUS

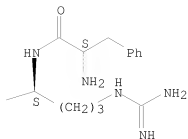
CN L-Cysteine, L-phenylalanyl-L-arginylglycyl-L-leucyl-L- α -glutamyl-L-asparaginyl-L-cysteiny-L-arginyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

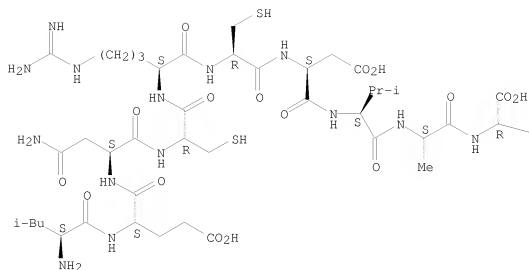


RN 525550-81-6 HCAPLUS

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 arginyl-L-cysteinyl-L- α -aspartyl-L-valyl-L-alanyl- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

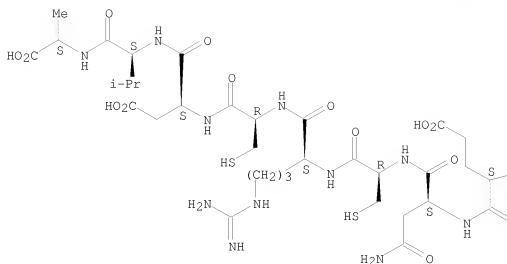


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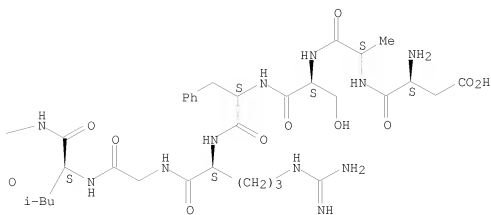
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 arginyl-L-cysteinyl-L- α -aspartyl-L-valyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



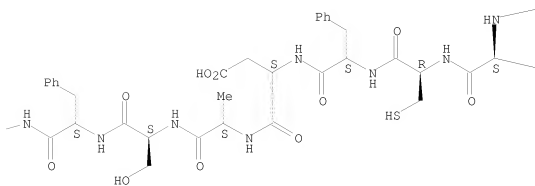
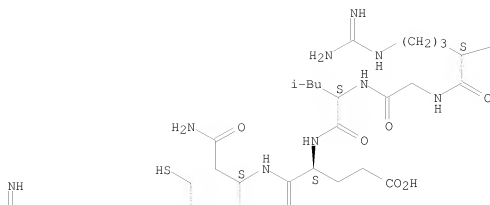
PAGE 1-B



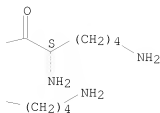
RN 525556-01-8 HCAPLUS

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 glutamyl-L-asparaginyl-L-cysteinyl- (9CI) (CA INDEX NAME)

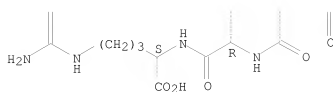
Absolute stereochemistry.



PAGE 1-C



PAGE 2-A

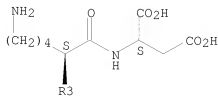


RN 525556-92-7 HCAPLUS

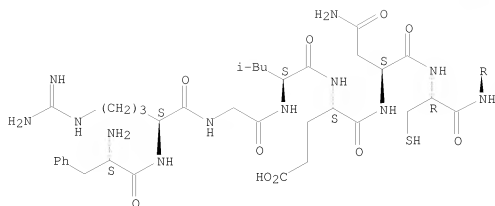
CN L-Aspartic acid, L-phenylalanyl-L-arginylglycyl-L-leucyl-L- α -glutamyl-L-asparaginyll-L-cysteinyl-L-arginyl-L-cysteinyl-L- α -aspartyl-L-valyl-L-alanyl-L-cysteinyl-L-lysyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

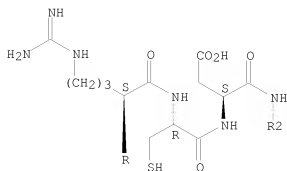
PAGE 1-A



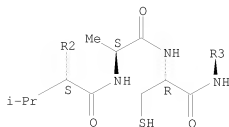
PAGE 2-A



PAGE 3-A



PAGE 4-A

IT **528836-14-8**

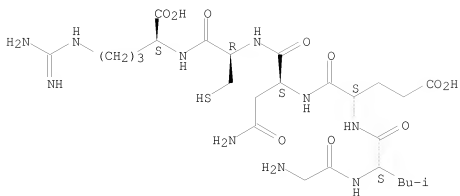
RL: PRP (Properties)

(unclaimed sequence; nucleic acid and corresponding protein designated 161P2F10B useful in treatment and detection of cancer)

RN 528836-14-8 HCAPLUS

CN L-Arginine, glycyl-L-leucyl-L- α -glutamyl-L-asparaginyl-L-cysteinyl-
(CA INDEX NAME)

Absolute stereochemistry.



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
(4 CITINGS)

L18 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2001:923846 HCAPLUS
 DOCUMENT NUMBER: 136:65232
 TITLE: 55P4H4 protein and gene expressed in various human cancers
 INVENTOR(S): Faris, Mary; Hubert, Rene S.; Afar, Daniel E. H.; Levin, Elana; Mitchell, Steven Chappell; Raitano, Arthur B.; Jakobovits, Aya
 PATENT ASSIGNEE(S): Urogenesys, Inc., USA
 SOURCE: PCT Int. Appl., 160 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001096391	A2	20011220	WO 2001-US19246	20010613
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			WO 2001-US19246	W 20010613

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB A novel human gene (designated 55P4H4) and its encoded protein are described. Protein 55P4H4 shows sequence homologies to human hypoxia-regulated gene products, murine RIK, Drosophila CHARBYE, and yeast RIC1 proteins. While 55P4H4 exhibits tissue-restricted expression in normal adult tissue, it is aberrantly expressed in multiple cancers including prostate, bladder, kidney, lung, testis, bone, cervical, brain, and ovarian cancers. The gene is mapped to human chromosome 4q22.3-24, a region known to be associated with a variety of chromosomal abnormalities in a number of different cancers. Consequently, 55P4H4 provides a diagnostic and/or therapeutic target for cancers, and the 55P4H4 gene or fragment thereof, or its encoded protein or a fragment thereof used to elicit an immune response.

IT 382602-56-4 382602-59-7 382602-95-1
 382603-33-0 382603-79-4 382603-90-9
 382603-94-3 382604-28-6 383126-20-3

RL: PRP (Properties)

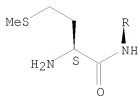
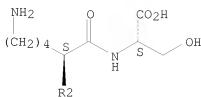
(unclaimed sequence; 55P4H4 protein and gene expressed in various human cancers)

RN 382602-56-4 HCAPLUS

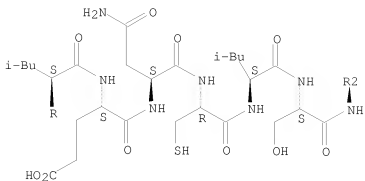
CN L-Serine, L-methionyl-L-leucyl-L- α -glutamyl-L-asparaginy-L-cysteinyl-L-leucyl-L-seryl-L-lysyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A

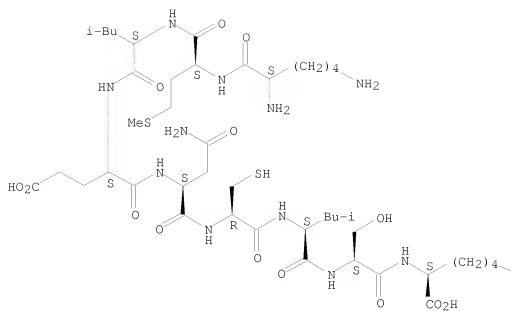


RN 382602-59-7 HCAPLUS

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Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

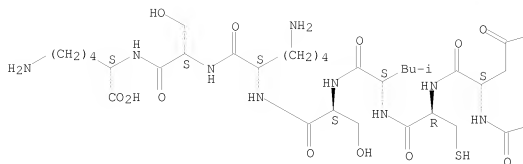


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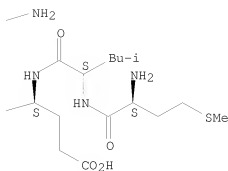
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Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

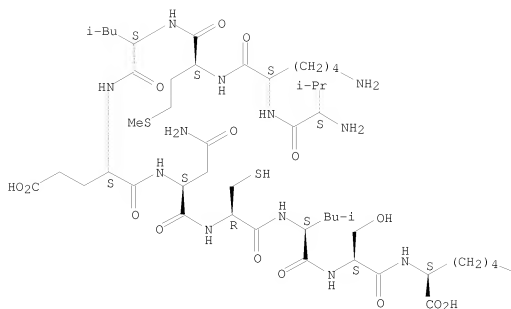


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Absolute stereochemistry.

PAGE 1-A



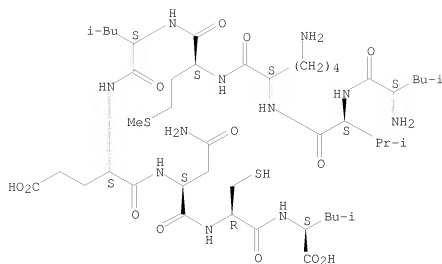
PAGE 1-B



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Absolute stereochemistry.

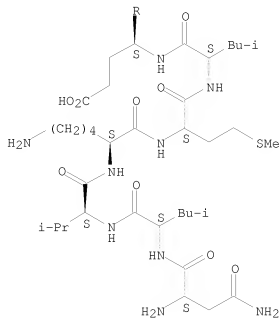


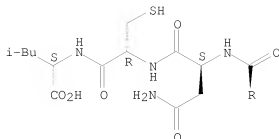
RN 382603-90-9 HCAPLUS

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Absolute stereochemistry.

PAGE 1-A

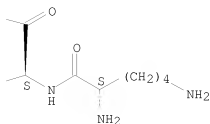
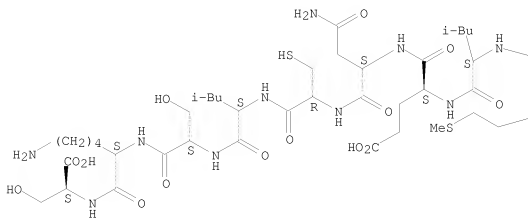




RN 382603-94-3 HCAPLUS

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Absolute stereochemistry.



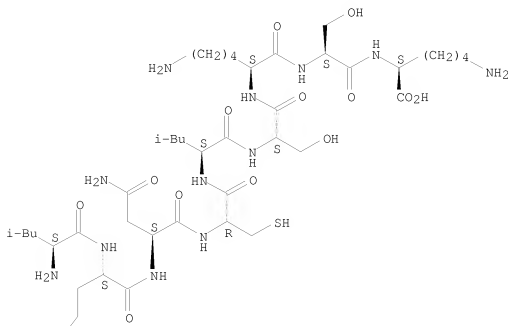
RN 382604-28-6 HCAPLUS

09/646,950

CN L-Lysine, L-leucyl-L- α -glutamyl-L-asparaginyl-L-cysteinyl-L-leucyl-L-seryl-L-lysyl-L-seryl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



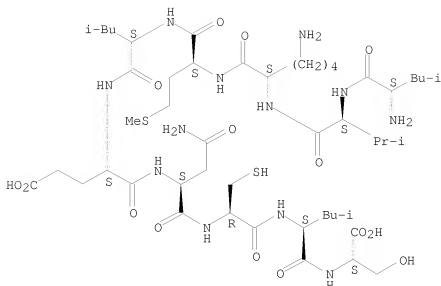
PAGE 2-A



RN 383126-20-3 HCAPLUS

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Absolute stereochemistry.



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(1 CITINGS)
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1975:51839 HCAPLUS

DOCUMENT NUMBER: 82:51839

ORIGINAL REFERENCE NO.: 82:8222h,8223a

TITLE: Biological activity and the binding affinity of modified insulins determined on isolated rat fat cells
 AUTHOR(S): Gleimann, J.; Gammeltoft, S.
 CORPORATE SOURCE: Inst. Med. Physiol. C, Univ. Copenhagen, Copenhagen, Den.

SOURCE: Diabetologia (1974), 10(2), 105-13

CODEN: DBTGJ; ISSN: 0012-186X

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The insulin analogs, 26B-30B-depentapeptide-insulin [52499-33-9], 1A-deglycine-insulin [52627-23-3] 1B-deamine-insulin [52499-38-4] and 1A,1B-diphenylthiocarbamoyl-insulin [52499-62-4] exerted the same maximal effect on the conversion of glucose [50-99-7] into lipids as native insulin [9004-10-8] in isolated rat fat cells. Removal of 2 amino acids from the N-terminal end of the B chain caused little decrease in potency (the concentration required for a modified insulin to produce 1/2 of

the maximal effect as compared to the concentration required for insulin). In contrast, removal of glycine from the N-terminal end of the A chain decreased the potency by 99%. The potency of the modified insulin substituted with acetyl or succinyl residues at position A1 was less than that at position B1 or B29. Cross linkage between positions A1 and B29 decreased the potency to 2-10%, whereas that between A1 and B1 almost abolished the activity. Of 9 modified insulins tested for their effect on insulin-125I binding to fat cell receptor sites, all inhibited the binding and the inhibition increased with decreasing biol. potency. The binding affinity of insulin, and therefore the potency, appears to be dependent on an intact tertiary structure of insulin and a free access to the N-terminal end of the A chain.

IT 52499-62-4

RL: BIOL (Biological study)
 (lipid formation stimulation by, in adipose tissue)

RN 52499-62-4 HCAPLUS

CN Insulin (cattle), NA-[(diphenylamino)thioxomethyl]-NB-[(diphenylamino)thioxomethyl] (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

09/646,950

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L18 6 SEA FILE=HCAPLUS ABB=ON PLU=ON L17

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L18 6 SEA ABB=ON PLU=ON L17
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DICTIONARY FILE UPDATES: 15 MAR 2010 HIGHEST RN 1210111-73-1

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USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2009

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